					<b>S</b> 1 EPARTMENT DIVISION C		RAL RESO				AMEND	FOF		
		ı	APPLICATION FOR	PERMIT T	O DRILL					1. WELL NAME and NU	<b>MBER</b> J 921-19C	1A-UBHZ		
2. TYPE C	OF WORK	DRILL NEW WEL	L REENTER P	&A WELL	DEEPEN	WELL (				3. FIELD OR WILDCAT	NATURAL E	BUTTES		
4. TYPE C	F WELL		Oil Well Coalt	ed Methane	Well: NO					5. UNIT or COMMUNIT	IZATION A		NT NAM	E
6. NAME	OF OPERATOR		KERR-MCGEE OIL &							7. OPERATOR PHONE	720 929			
8. ADDRE	SS OF OPERAT	ΓOR	P.O. Box 173779, I	Denver, CO.	80217					9. OPERATOR E-MAIL		anadarko.d	om	
	RAL LEASE NUI L, INDIAN, OR S	STATE)			AL OWNERS	SHIP DIAN (	STATE (	) FEE(	5	12. SURFACE OWNERS		STATE		E ( )
13. NAME	OF SURFACE	UTU0581 OWNER (if box 1:	2 = 'fee')	1232.00			J2	, v	<u>.</u>	14. SURFACE OWNER	-			
15. ADDR	ESS OF SURF	ACE OWNER (if bo	ox 12 = 'fee')							16. SURFACE OWNER	E-MAIL (	if box 12	= 'fee')	
	N ALLOTTEE C 2 = 'INDIAN')	DR TRIBE NAME			D TO COMM FORMATIO				<u> </u>	19. SLANT  VERTICAL DIR	ECTIONAL	н	ORIZONT	AL 📵
20. LOC	ATION OF WEL	L	F	OOTAGES		QTR-0	QTR	SEC1	TION	TOWNSHIP	RAI	NGE	МЕ	RIDIAN
LOCATIO	ON AT SURFAC	Έ	1093 F	NL 2105 FV	VL	NEN	w	30	)	9.0 S	21.	0 E		S
Top of U	Jppermost Pro	ducing Zone	1093 F	NL 2105 FV	VL	NEN <sup>1</sup>	w	30	)	9.0 S	21.	0 E		S
At Total	Depth		2 FN	L 2631 FWL	-	NEN	w	19	9	9.0 S	21.	0 E		S
21. COU	NTY	UINTAH		22. DISTA	NCE TO NEA	AREST LEAS 472	SE LINE (Fe	et)		23. NUMBER OF ACRE	S IN DRIL 240		Γ	
					NCE TO NEA For Drilling			POOL		26. PROPOSED DEPTH MD:		TVD: 485	5	
27. ELEV	ATION - GROU			28. BOND	NUMBER					29. SOURCE OF DRILL WATER RIGHTS APPRO	OVAL NUM	IBER IF AF	PPLICABL	.E
		4858		Но	le, Casing	WYB0002		mation			43-84	196		
String	Hole Size	Casing Size	Length	Weight		k Thread		lud Wt.		Cement		Sacks	Yield	Weight
Surf	12.25	9.625	0 - 2803	36.0	J-55	LT&C	8	1.4		Type III		420	2.1	12.5
										Type III		410	1.46	14.3
I1	8.75	7	0 - 5182	26.0	HCP-1	10 LT&C	10	0.2	Pr	emium Lite High Str	ength	500	1.92	12.5
										Class G		90	1.16	15.8
L1	6.125	4.5	4282 - 11032	11.6	HCP-1	10 LT&C	9	.5	_	No Used		0	0.0	0.0
									<u> </u>	No Used		0	0.0	0.0
					Α	TTACHME	ENTS							
	VE	RIFY THE FOLL	OWING ARE ATTA	CHED IN A	CCORDAN	ICE WITH	THE UTAI	H OIL AN	ND GAS	CONSERVATION G	ENERAL	RULES		
<b>⊮</b> w	/ELL PLAT OR N	MAP PREPARED B	Y LICENSED SURVEY	OR OR ENGIN	NEER		СОМР	LETE DRI	LLING P	_AN				
AF	FIDAVIT OF ST	ATUS OF SURFAC	E OWNER AGREEME	NT (IF FEE SI	URFACE)		FORM	5. IF OPE	RATOR I	S OTHER THAN THE LE	ASE OWN	IER		
<b>I</b> ✓ DI	RECTIONAL SU	JRVEY PLAN (IF D	IRECTIONALLY OR H	ORIZONTAL	LY DRILLED	) <u> </u>	<b>т</b> орос	SRAPHICA	AL MAP					
NAME C	ara Mahler			TITLE Regu	ulatory Analy	rst I			PHONE	720 929-6029				
SIGNATI	JRE			<b>DATE</b> 03/1	3/2013				EMAIL	cara.mahler@anadarko.	com			
	iber assignet 04753697			APPROVAL	-				B	ocyill				
									Pern	nit Manager				

## Kerr-McGee Oil & Gas Onshore. L.P.

## MU 921-19C1A-UBHZ

Surface: 1093 FNL / 2105 FWL NENW Section 30 BHL: 2 FNL / 2631 FWL NENW Section 19

T9S R21E

Unitah County, Utah Mineral Lease: UTU-0581

### **ONSHORE ORDER NO. 1**

### **DRILLING PROGRAM**

## 1. & 2. <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,596'	Water
Birds Nest	1,858'	Water
Mahogany	2,353'	Water
Lower Green River	4,351'	
Uteland Butte	4,800'	Oil/Gas
TVD	4,855'	
TMD	11,032'	

## 3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program

## 4. <u>Proposed Casing & Cementing Program:</u>

Please refer to the attached Drilling Program

## 5. <u>Drilling Fluids Program:</u>

Please refer to the attached Drilling Program

## 6. <u>Evaluation Program</u>:

Please refer to the attached Drilling Program

## 7. <u>Abnormal Conditions</u>:

Maximum anticipated bottom hole pressure calculated at 4855' TVD, approximately equals 2,428 psi

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 1,359 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

## **8.** Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

## 9. <u>Variances:</u>

Please refer to the attached Drilling Program. Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- · Blowout Prevention Equipment (BOPE) requirements;
- · Mud program requirements; and
- · Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

### **Background**

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may

be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

## Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

#### **Variance for Mud Material Requirements**

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

### Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

**Drilling Program** 

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

## Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

### Conclusion

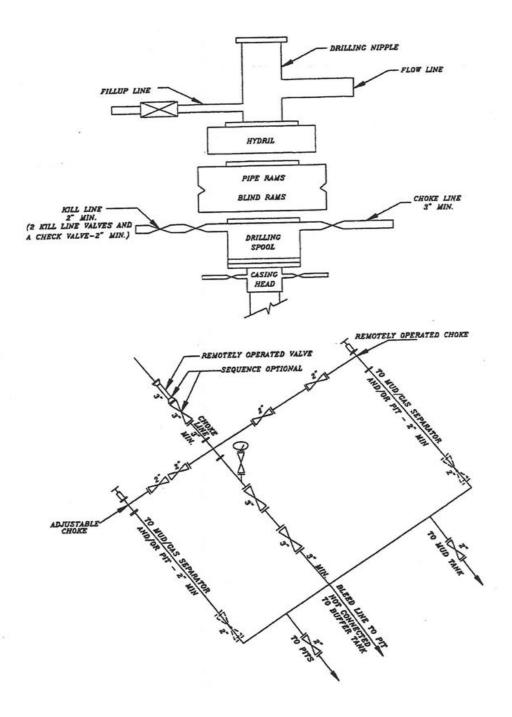
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

## 10. Other Information:

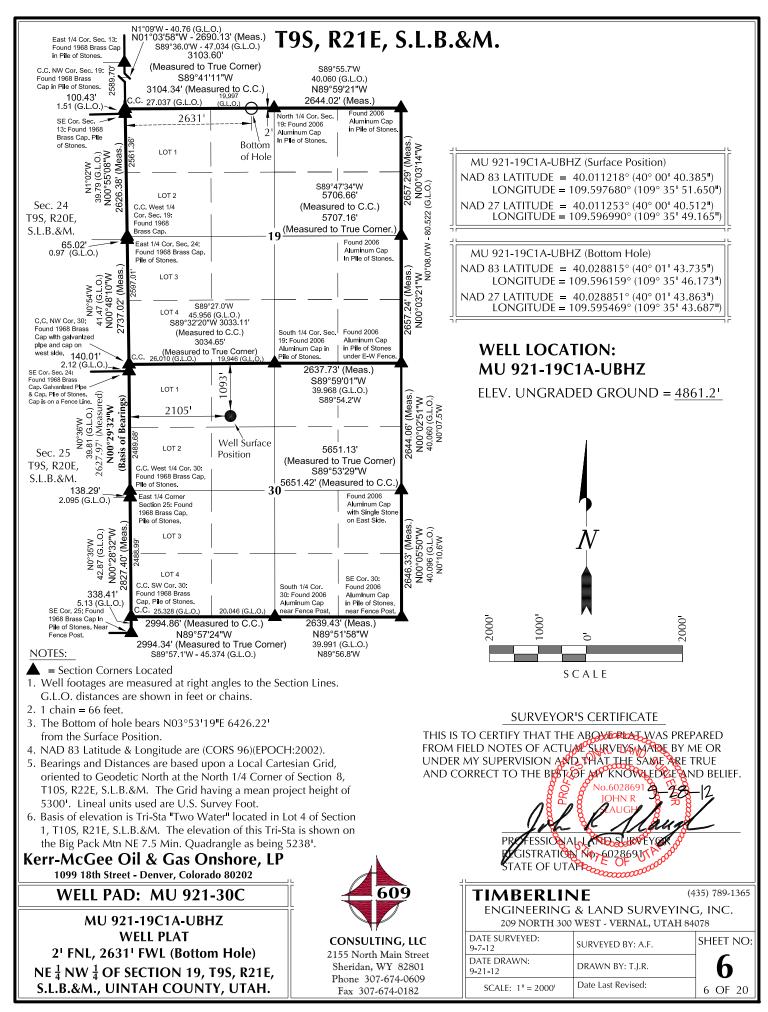
Please refer to the attached Drilling Program.

					Γ	RILLING	AND GE	OLOGIC	CAL IN	NFORM	ATION		Ba	ased o	<mark>n Sur</mark>	<mark>vey F</mark>	<mark>Plat</mark>	
PROSPEC	T/FIELD			Uintah				COUNTY	Uintah			GROUND ELEVATION	<b>N</b> GR 4,858'		Source of	drilling pr	ogram:	J. BROOKS
OPERATO				Kerr McGee						19C1A-UBHZ	7		B KB ± 4,877'					Kathryn Schuller
LEASE & V				MU 921-19C1A-UBH	7			STATE					,-		Source of			,
SURFACE		ı			2105' FWL			воттом но		TION	2' FNL	2631' FWL					_	
SONI ACL	LOCATION	•		Section 30	T9S	R21E		BOTTOMITIO	LL LOCA	11014	Section 19	T9S	R21E			SIIDEA	CE N/S	1093' FNL
L AT/LONG	(NIADOS)			40.011218	-109.59768	NZIL		DOTTOM HO		ONG (NADO)		40.028815	-109.596159				_	2105' FWL
LAT/LONG								воттом но		•	•						_	
LAT/LONG	-			40.011253	-109.5969			воттом но		-	-	40.028851	-109.595469		CSG SHOE			
AZIMUTH (				358.000000				STRIKE/DIP (						•	CSG SHOE		_	
FORM @ 1		HOLE)						FORM @ TD		NTAL HOLE)		Green River Lower			7" CSG SH	•	· -	
API NUMB	ER							AFE NUMBER	₹					· ·	7" CSG SH	OE E/W (F	REF LL) 2	143' FWL
1	11.	WELLBO	ORE		Based on 4,877' KB			Comme	nte	LOGGING F	PROGRAM:							
					GEOLOGICAL TOPS:			001111110		Int	terval		Туре				Log	j
					Formation	MD	TVD			Surf (	Csg -TD	N	Mudlogging		Two-man u	ınit mud lo	gging	
					Green River	1,596 '	1,596 '											
1 : 1					Birds Nest	1,858 '	1,858 '											
1 : 1					Mahogany	2,353 '	2,353 '											
1 : 1					GR lower	4,351 '	4,351 '			U7 Kicko	off - Landing		MWD/GR		GR			
					UTELAND BUTTE	4,929 '	4,800 '			TIZ KICKO	n - Lanuing		IVIV D/OIL		JIV.			
		1			OTELAND BOTTE	4,929	4,800			117	Lotoral		MWD/LWD		Inc/Az/GR			
										HZ I	Lateral	I)				h	(0:-::	al atria a)
			_	F/011 O A OIN ! O DEEE: :									PCL		Triple Com	no & FMI	- (One too	ਮ sưng)
				5/8" CASING DEPTH														
			MD:															
			TVD:	2,803'	HZ proposed Landing TVD @ 572' VS		4,855 '											
1 1																		
	11										None			CORES:	None			
1 1										4	L DRILLING F							
										Mechanical	Instability who	en drilling the curve, bring	g MW up 0.5 ppg pe	r 45 degrees	over curve i	nterval		
1 1																		
1 1										1								
										1								
										DEVIATION	I: No deviation	on restraints based on h	ardlines as we in t	he middle of	unitized ac	reage.		
				7" CEMENT TOP						1						_		
			MD:	0'	Proposed TD (Horizontal)	11,032 '	4,855 '			1								
			TVD:	0'	MUD PROGRAM:	,	,			Surface For	rmation:							
					Mud Type	Interval				Weight	Vis	WL			Re	marks		
					Fresh Water	into var	0' -	2,803' MD		8.4	40 - 45	NC	Spud mud - FW p	lus hentonite			r flocculat	tion
					Fresh Water		2,803' MD -	4,282' MD		9	28 - 30	<20	Fresh water with b			d iiiiic io	Hoccula	1011
					1 Testi Water		2,003 1010 -	4,202 1010		, J	20 30	120	Tresti water with t	Jentonite for s	sweeps			
					FW PHPA (Directional)		4 2021 MD	E 400! MD		10.2	35 - 50	<10	MW & PHPA to m	aintain atabili	:4			
					, ,		4,282' MD -	5,182' MD							щу			
1 1				КОР	FW PHPA/Flowzan (Horizontal)		5,182° MD -	11,032' MD		9.5	35 - 50	<10	Fresh water/PHP/	4				
1 1			TVD/MD:	4,282'	CASING & CEMENT PROGRAM:													
						Size	Wt (ppf)	Grade	Hole	Тор	Bottom	Cement:	Ft	Sx	Density	Yield	GPS	Туре
					Surface Casing:	9.625"	36.0	J-55	12.25"	0'	2,803'	Lead	1,400 '	±420 sx	12.5	2.1	11.97	Type III
				LANDING AND								Tail	1,403 '	±410 sx	14.3	1.46	7.18	Type III
			7" INT	ERMEDIATE DEPTH	Lead Cmt Additives	2.5% SMS, 0.25 lbs	s/sk Cello Flake,	0.08 lbs/sk Station	c free									
			MD:	5,182'	Tail Cmt Additives	2% Calcium Chlorid	de, 0.25 lbs/sk C	ello Flake, 0.08 II	os/sk Static	free								
			TVD:	4,855'														
					Intermediate Casing:	7.000"	26.0	HCP-110	8.75"	0'	5,182'	Lead	4,682 '	±500 sx	12.5	1.92	10.54	Premium Lite
			4 1/2"	LINER TOP								Tail	500 '	±90 sx	15.8	1.16		Class G
)			MD:	4,282'	Lead Cmt Additives	3% Bentonite, 0.4%	6 FL - 52, 0.25 lb	/sk Cello Flake										
			TVD:	4,282'	Tail Cmt Additives	20% S-8, 0.4% FL-	52, 0.1% SMS											
1 1																		
					Draduation Com-	4.500"	44.6	LICD 440	6.125"	4,282'	44.000	Load						Desferated Lines
					Production Csg:	4.500"	11.6	HCP-110	0.125	4,282	11,032'	Lead						Perforated Liner
I   L				4 1/2" LINER DEPTH	Lond Crest Addistres							Tail						
7																		
<b>!</b>	IIII		MD:	,	Tail Cmt Additives													
\\		_	TVD:	4,855'														
//																		
· `						Lateral Length	5,850'					TOE / 4 1/2" LINER SET						
	1											MD	11,032'	TVD:	4,855'			
	_	-																
1																		
I		PILO	OT HOLE:		BOTTOM HOLE PRESSURE													
		MD:		0'	Formation:	Green River			2,444	psi @		5,200'	or	Gradient:		0.47	psi/ft	
I		TVD	):	0'						psi @			or	Gradient:			psi/ft	
					Prepared by:	J. BROOKS			Date:	01/11/13				Well Draft Dr		ım.xls		

EXHIBIT A
MU 921-19C1A-UBHZ

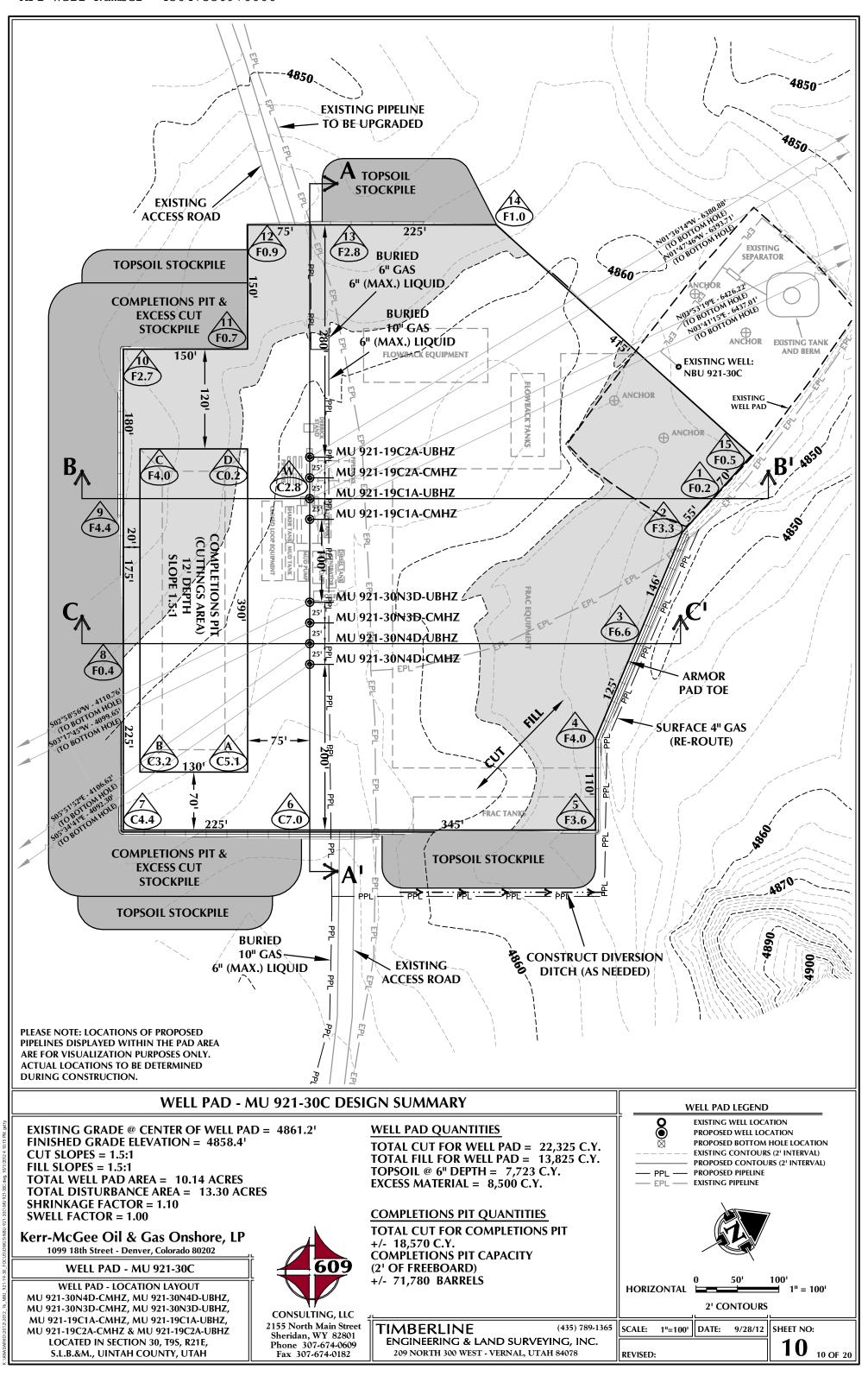


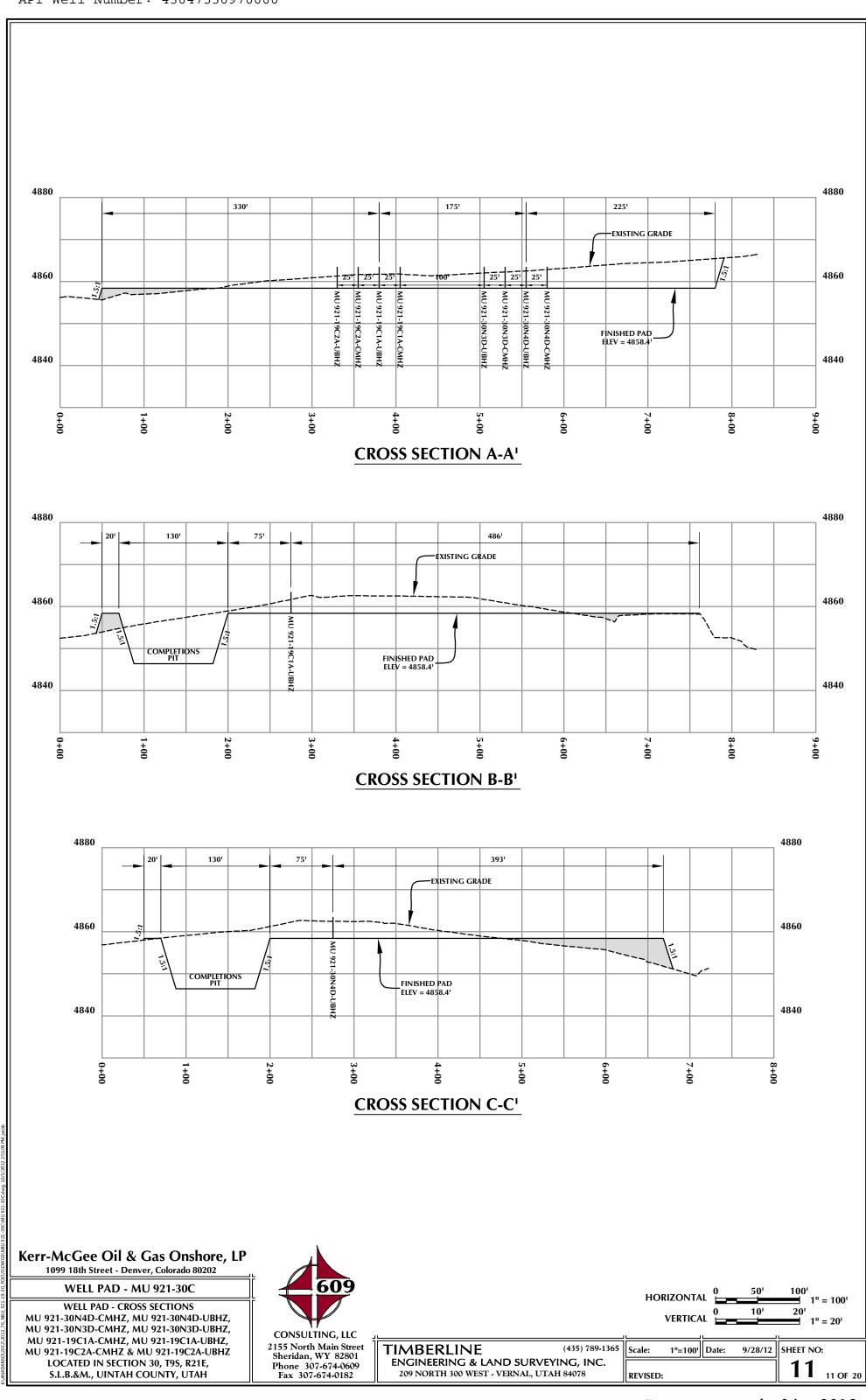
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

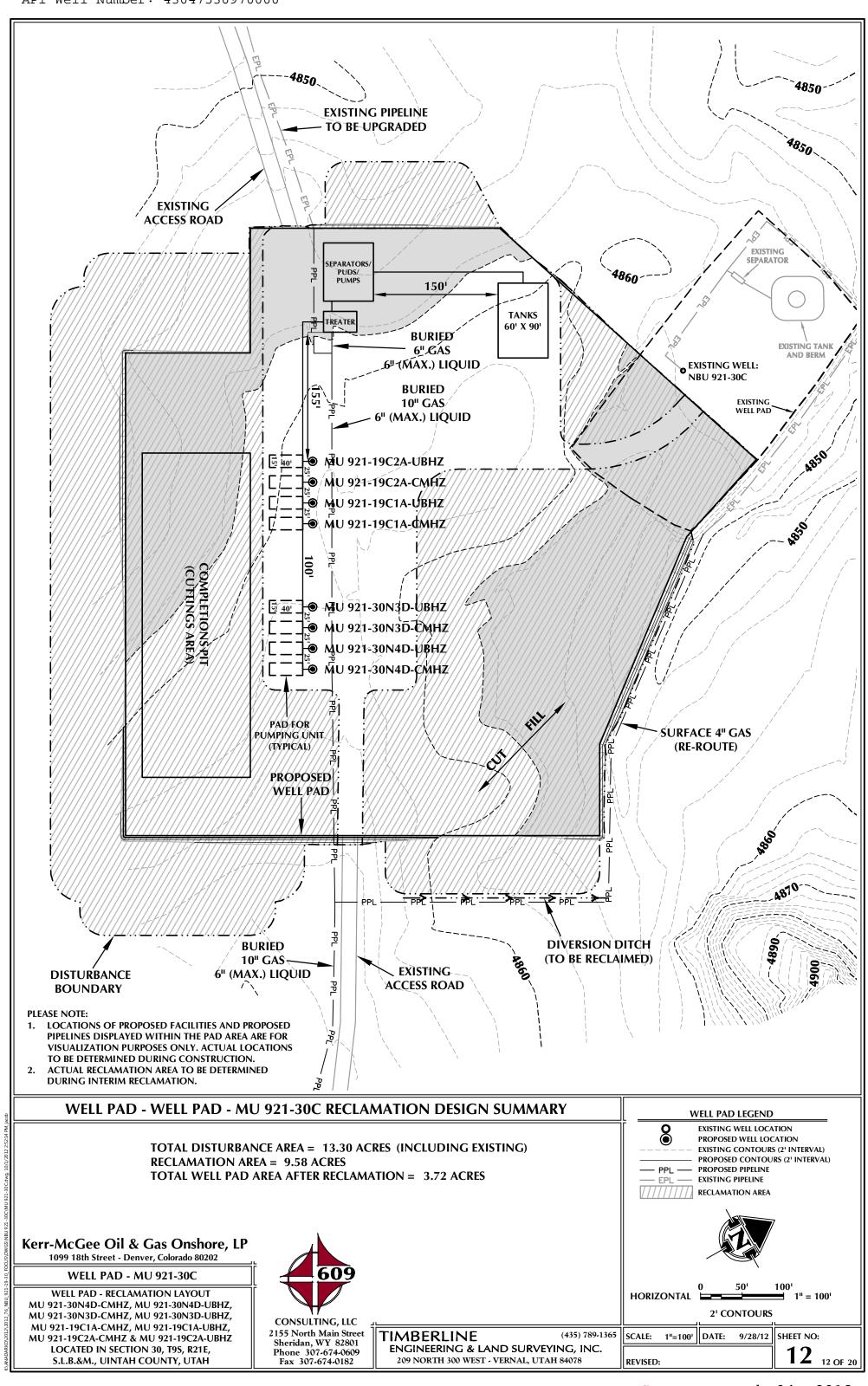


			RFACE POSITIO					OTTOM HOLE		
WELL NAME	LATITUDE	NAD83 LONGITUDE		AD27 LONGITUDE	FOOTAGES	NAI LATITUDE	D83 LONGITUDE	NAI LATITUDE	D27 LONGITUDI	FOOTAGES
MU	40°00'39.419"		" 40°00'39.546"		1192' FNL	39°59'59.186"	109°35'44.219"	39°59'59.312"		
921-30N4D-CMHZ	40.010950°	109.597058°	40.010985°	109.596367°	2279' FWL	39.999774°	109.595616°	39.999809°	109.594926°	26421 FWL
MU 921-30N4D-UBHZ	40°00'39.540" 40.010983°	109°35'49.687   109.597135°	40°00'39.667" 40.011018°	109°35'47.202" 109.596445°	1180' FNL 2257' FWL	39°59'59.186" 39.999774°	109°35'44.219" 109.595616°	39°59'59.312" 39.999809°	109°35'41.734 109.594926°	1" 12' FSL 2642' FWL
MU	40°00'39.660"				1167' FNL	39°59'59.220"	109:35/52.917"	39°59'59.347"		
921-30N3D-CMHZ	40.011017° 40°00'39.782"	109.597213°	40.011052°	109.596523°	2236' FWL	39.999783° 39°59'59.220"	109.598032°	39.999819°	109.597342°	1965' FWL
MU 921-30N3D-UBHZ	40.011050°	109°35°50.248	40.011086°	109°35'47.763" 109.596601°	1155' FNL 2214' FWL	39.999783°	109°35'52.917"  109.598032°	39°59'59.347" 39.999819°	109°35'50.432 109.597342°	2" 16' FSL 1965' FWL
	•	1	RELATIVE (		- From Surfac	e Position to Bott	om Hole		•	-
WELL NAME	NORTH			NORTH E.		NAME	NORTH EAST		AE NO	RTH EAST
MU 921-30N4D-CM	HZ -4072.9			-4085.1 41		0N3D-CMHZ	-4092.9' -235.		-41 D-UBHZ	05.2' -213.9'
502	2°58'56"W - (To Bot Az=18 3°17'45"W (To Bo	tom Hole) _ 32.98222° - 4099.65' ottom Hole)-	MIX	SOLUTION SOL	\$05°5 (To Bo Az=17	OF S.L GL OB 1'52"E - 410 ottom Hole) 74.13556° 5°34'41"E - 5 Bottom Ho	96.62' 4092.30'	SECTION 30, I IS TAKEN FR NING SATELI	. T9S, R21E, ROM LITE	
							,09	000 € S C A I	- E	N 109
34/55	L PAD - N	MU 921-3	0C		609	TI	MBERL	INE	(	435) 789-1365
WEL							engineerin	G & LAND		
MU 221-30NAD-CMHZ		RNAL, UTAH 8	4078							
WELL			D-UBHZ, ∥			- 11				
WELL MU 921-30 MU 921-30	)N4D-CMHZ,   )N3D-CMHZ,	MU 921-30N4E MU 921-30N3E	D-UBHZ, ∥			9-7-1		SURVEYED E	3Y: A.F.	SHEET NO:
WELL MU 921-30 MU 921-30 MU 921-1	)N4D-CMHZ,   )N3D-CMHZ,   9C1A-CMHZ,	MU 921-30N4E MU 921-30N3E MU 921-19C1 <i>E</i>	D-UBHZ, A-UBHZ,	2155 No	orth Main Str	9-7-1 DAT	E DRAWN:			
WELL MU 921-30 MU 921-30 MU 921-1 MU 921-19	DN4D-CMHZ, / DN3D-CMHZ, / 9C1A-CMHZ, / DC2A-CMHZ &	MU 921-30N4E MU 921-30N3E MU 921-19C1A MU 921-19C2	D-UBHZ, A-UBHZ, A-UBHZ	2155 No Sherida	orth Main Str an, WY 8280	9-7-1 DAT 9-21	12 E DRAWN: -12	DRAWN BY	: T.J.R.	SHEET NO <b>9A</b> OF 20

		SU	RFACE POSITIO	)N						R	оттом н	IOLE		
WELL NAME	NAD	83	NA	D27				NAD				NAD27		
MU	<b>LATITUDE</b> 40°00'40.265"	LONGITUDE 109°35'51.369"	<b>LATITUDE</b> 40°00'40.392'		48.884"	FOOTAGES 1105' FNL	<b>LATIT</b> 40°01'4			'46.173"	<b>LATITU</b> 40°01'43.		ONGITUDE 09°35'43.687"	FOOTAGES 2' FNL
921-19C1A-CMHZ	40.011185°	109°35'51.369" 109.597602°	40.011220°	109.596	5912°	2127' FWL	40.0288		109°35 109.59		40.02885	51° 10	9.595469°	2 FNL 2631 FWL
	40°00'40.385" 40.011218°	109°35'51.650"	40°00'40.512'	1		1093 FNL	40°01'4			'46.173"			09°35'43.687"	2' FNL
		109.597680° 109°35'51.929"	40.011253° 40°00'40.633'	109.596 109°35		2105' FWL 1080' FNL	40.0288 40°01'4		109.59 109°35	6159° '54.628"	40.02885 40°01'43.		)9.595469° )9°35'52.142"	2631' FWL 7' FNL
921-19C2A-CMHZ	40.011252°	109.597758°	40.011287°	109.597	7068°	2084' FWL	40.0287	789°	109.59	8508°	40.02882	25° 10	)9.597817°	1973' FWL
	40°00'40.626" 40.011285°	109°35'52.210" 109.597836°	40°00'40.753' 40.011320°	109°35 109.59		1068' FNL 2062' FWL	40°01'4 40.0287		109°35 109.59	'54.628" 8508°	40°01'43. 40.02882	1	)9°35'52.142" )9.597817°	<i>7</i> ' FNL 1973' FWL
NBU	40°00'44.990"	109°35'50.634"	40°00'45.117'	109°35	48.149"	628' FNL								1010 1112
921-30C	40.012497°	109.597398°	40.012533°	109.596		2189' FWL - From Surface	Docition	to Potto	اما س					
WELL NAME	NORTH	EAST WE		ORTH	EAS		NAME	NORT		EAST	WELL	NAME	NORTH	EAST
MU	6423.71	41.4.01 MU		411.4'	435.	oı MU	2A-CMHZ	6390.		-200.4	MU	2A-UBHZ	6279 41	-178.6
921-19C1A-CMHZ		921-	ISCIA-UBIIZ			921-190	ZA-CMHZ				921-190	ZA-UBITZ		
,09	ōg ōo s c A	OF T R21E GLO OBS	S OF BEARIN THE NW \$\frac{1}{4}\$ OF \$\frac{1}{5}\$, S.L.B.&M. V BAL POSITIO ERVATIONS 1	SECTIO VHICH I NING S TO BEAF	N 30, T S TAKE! ATELLIT R N00°2	9S, N FROM FE 19'32"W.	L. S.	Az=358.20389° N01°47'46"W - 6393.71	(To Botte	N	(10 Bottom Hole) (10 Bottom Hole) (10 Bottom Hole) (10 Bottom Hole)			
				/	R2.10\	R. R. R. P. S. R.	MADOS.	4192 4192	1.30	N. C. Williams				
	th Street - Der	iver, Colorado	80202	/	R. P.	AZ. TO LIBL 9	WI OS.	JEBO .		en e			(43	35) 789-1365
1099 18  WEL	th Street - Der L PAD - I L PAD INTE		80202 SOC	[	RA. TOO	P. A.	Wiggin Was	TI	MB NGIN 209 I	ERLI VEERIN NORTH 3	INE G & LA		(4: JRVEYINC AL, UTAH 840	i, INC.
WEL  WEL  MU 921-3  MU 921-3	th Street - Der L PAD - L L PAD INTE 0N4D-CMHZ, 0N3D-CMHZ,	NVER, Colorado MU 921-3 RFERENCE PI MU 921-30N4I MU 921-30N3I	BOCC  LAT D-UBHZ, D-UBHZ,		CONSI	609	ν	TI	MB NGIN 209 I SURVE	ERLI VEERIN NORTH 3	INE G & LA		JRVEYINC AL, UTAH 840	i, INC.
1099 18  WEL  MU 921-3  MU 921-3  MU 921-1	th Street - Der L PAD - I L PAD INTE 0N4D-CMHZ, 0N3D-CMHZ, 19C1A-CMHZ,	NU 921-3 RFERENCE PI MU 921-30N4	BOCC  LAT D-UBHZ, D-UBHZ, A-UBHZ,		CONSU 2155 No	609	RJ. C	TI/ EI DATE 9-7-12	MB NGIN 209 I SURVE 2 DRAW	ERLINEERIN NORTH 3	INE G & LA 300 WEST SURVE	- VERNA	JRVEYINC AL, UTAH 840 A.F.	i, INC. 078







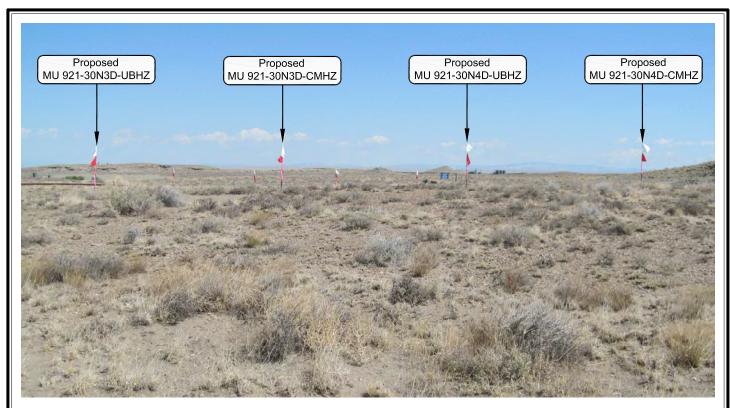


PHOTO VIEW: FROM LOCATION STAKES TO CORNER #3

**CAMERA ANGLE: NORTHEASTERLY** 

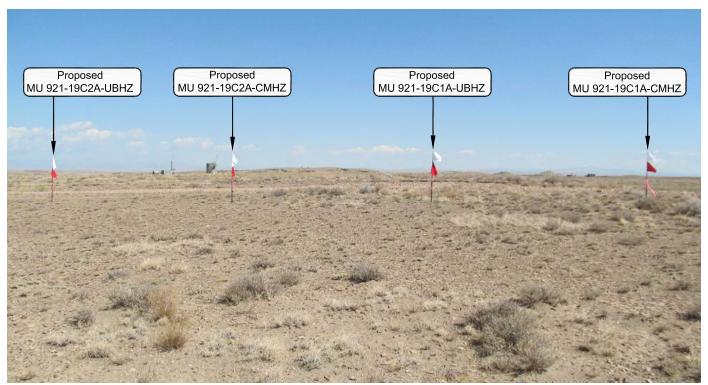


PHOTO VIEW: FROM LOCATION STAKES TO CORNER #1

**CAMERA ANGLE: NORTHEASTERLY** 

## Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

## **WELL PAD - MU 921-30C**

LOCATION PHOTOS MU 921-30N4D-CMHZ, MU 921-30N4D-UBHZ, MU 921-30N3D-CMHZ, MU 921-30N3D-UBHZ, MU 921-19C1A-CMHZ, MU 921-19C1A-UBHZ, MU 921-19C2A-CMHZ & MU 921-19C2A-UBHZ LOCATED IN SECTION 30, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.



## CONSULTING, LLC 2155 North Main Street Sheridan, WY 82801 Phone 307-674-0609

Fax 307-674-0182

## TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 9-7-12	PHOTOS TAKEN BY: A.F.	SHEET NO:
DATE DRAWN: 9-21-12	DRAWN BY: T.J.R.	13A
Date Last Revised:		13A OF 20



PHOTO VIEW: FROM EXISTING ACCESS ROAD

**CAMERA ANGLE: NORTHWESTERLY** 

## Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

## **WELL PAD - MU 921-30C**

**LOCATION PHOTOS** MU 921-30N4D-CMHZ, MU 921-30N4D-UBHZ, MU 921-30N3D-CMHZ, MU 921-30N3D-UBHZ, MU 921-19C1A-CMHZ, MU 921-19C1A-UBHZ, MU 921-19C2A-CMHZ & MU 921-19C2A-UBHZ LOCATED IN SECTION 30, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.



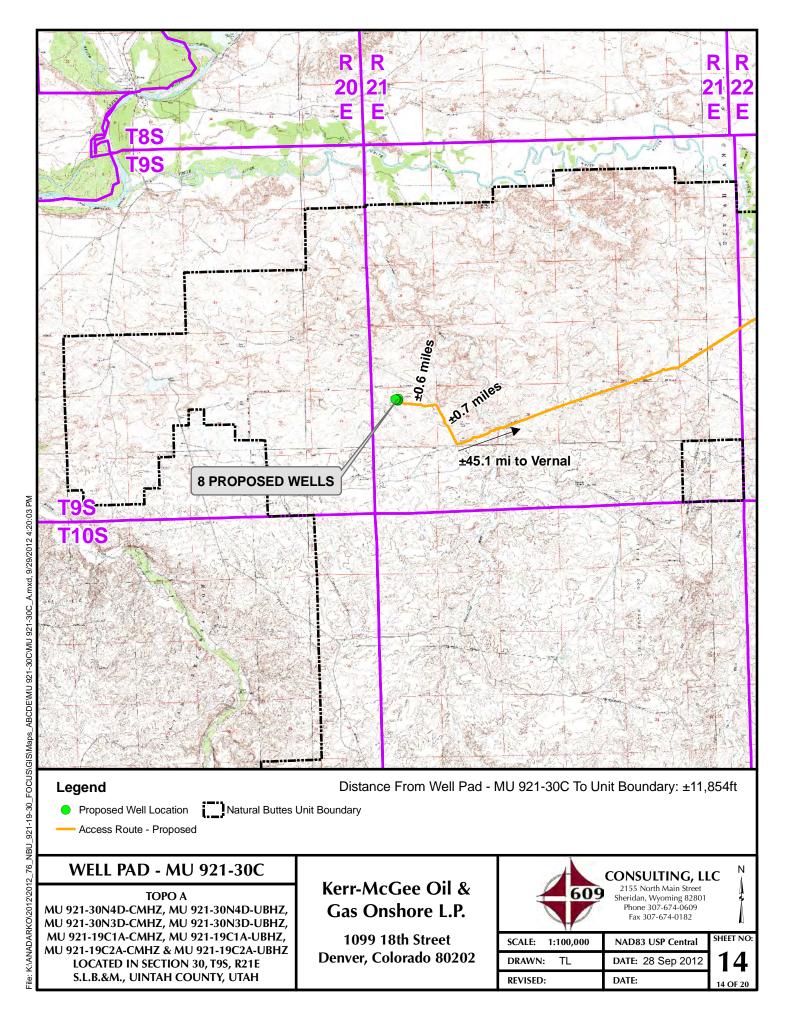
## CONSULTING, LLC 2155 North Main Street Sheridan, WY 82801 Phone 307-674-0609 Fax 307-674-0182

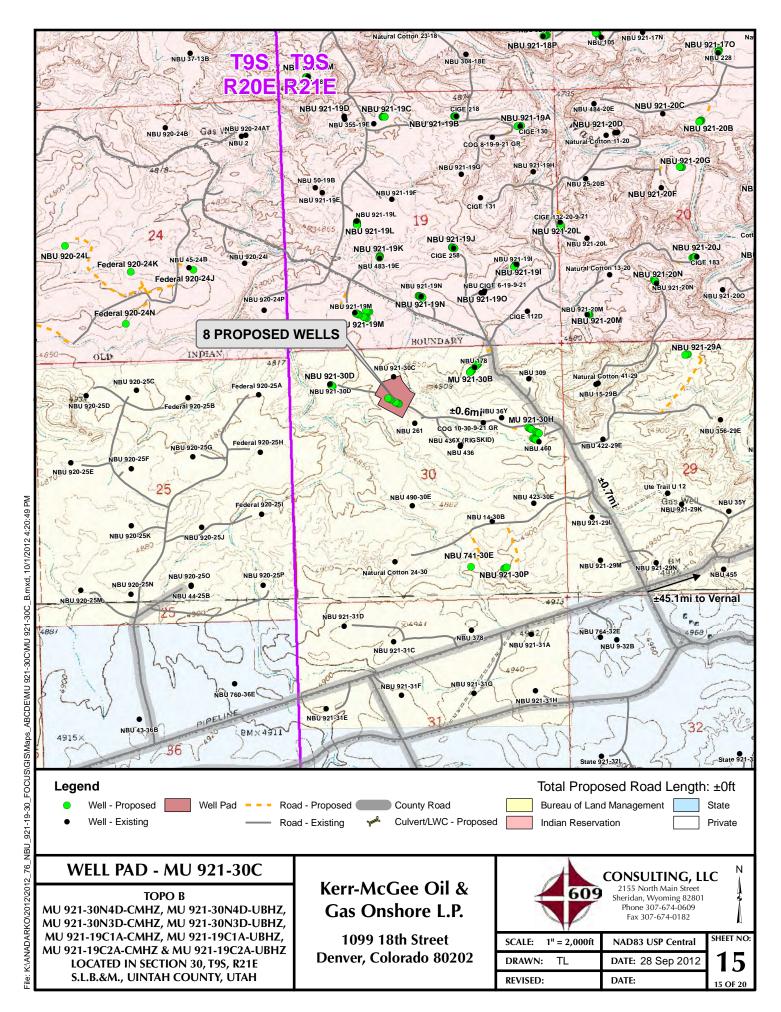
## TIMBERLINE

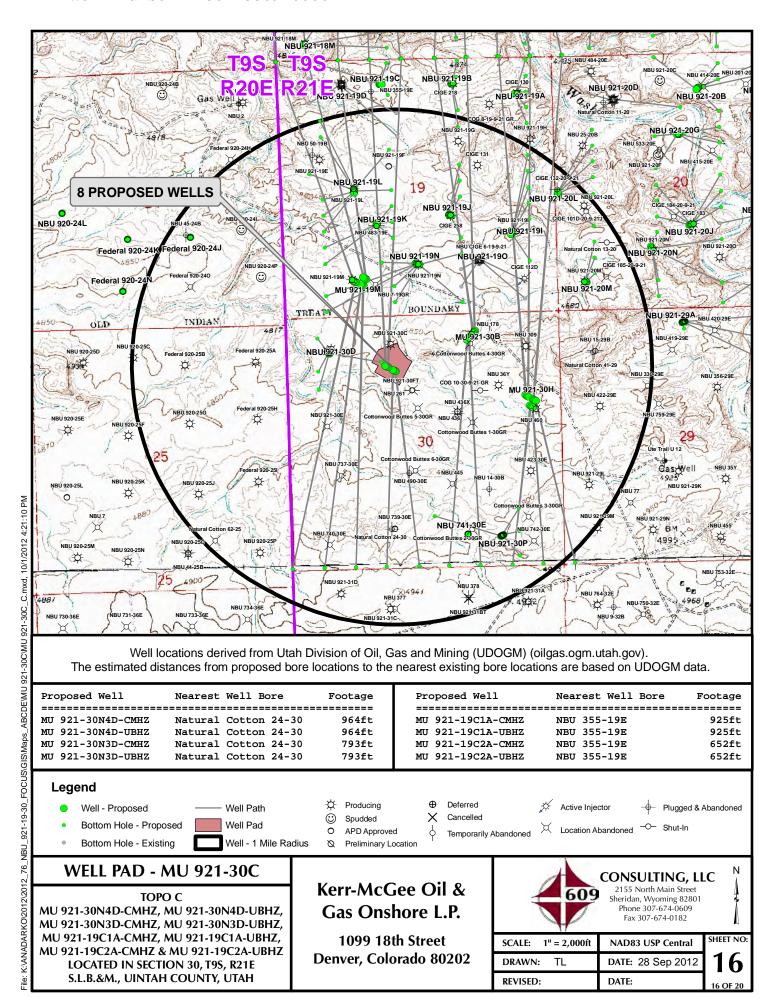
(435) 789-1365

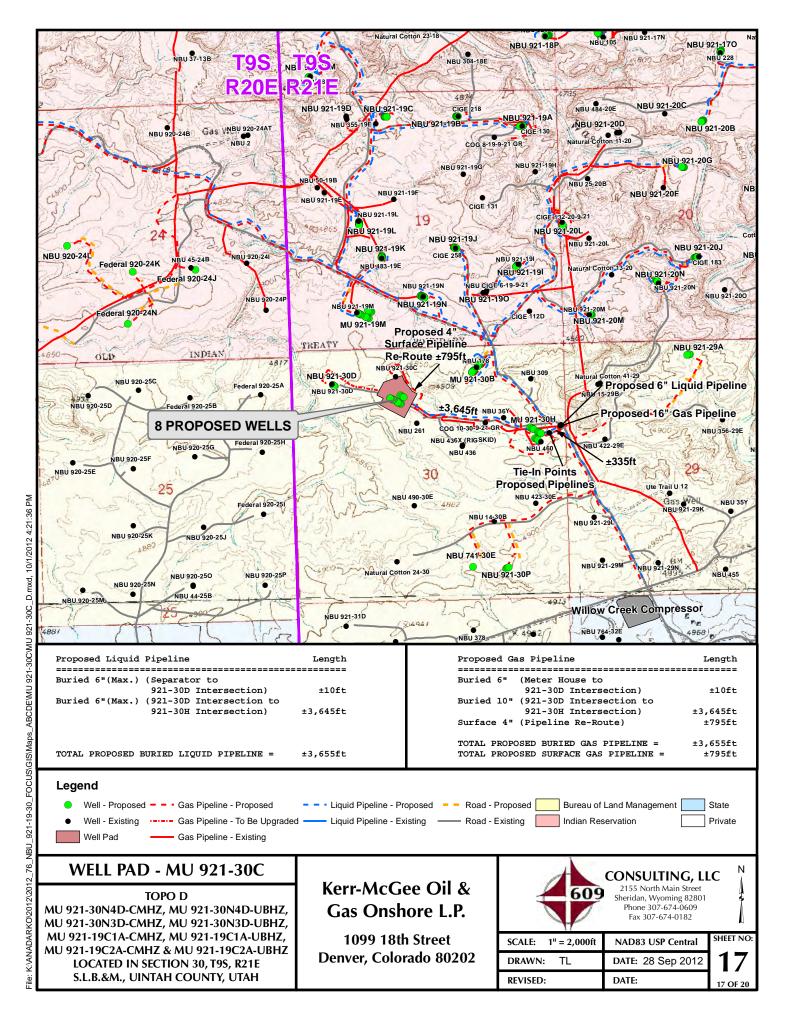
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

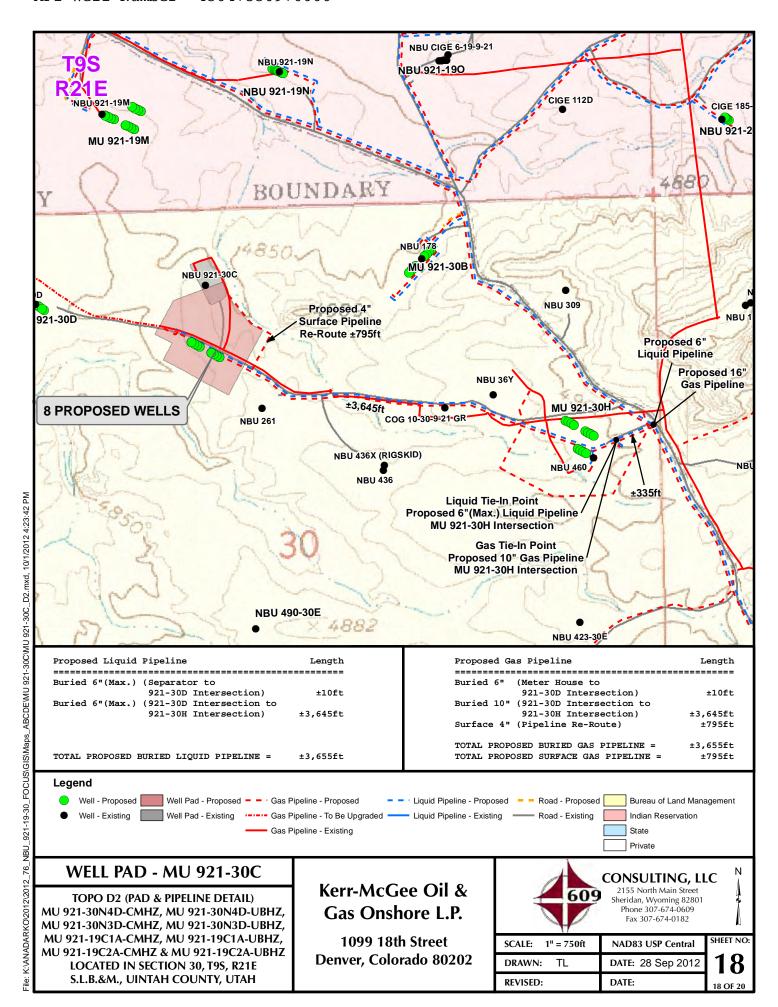
DATE PHOTOS TAKEN: 9-7-12	PHOTOS TAKEN BY: A.F.	SHEET NO:
DATE DRAWN: 9-21-12	DRAWN BY: T.J.R.	13B
Date Last Revised:		13B OF 20

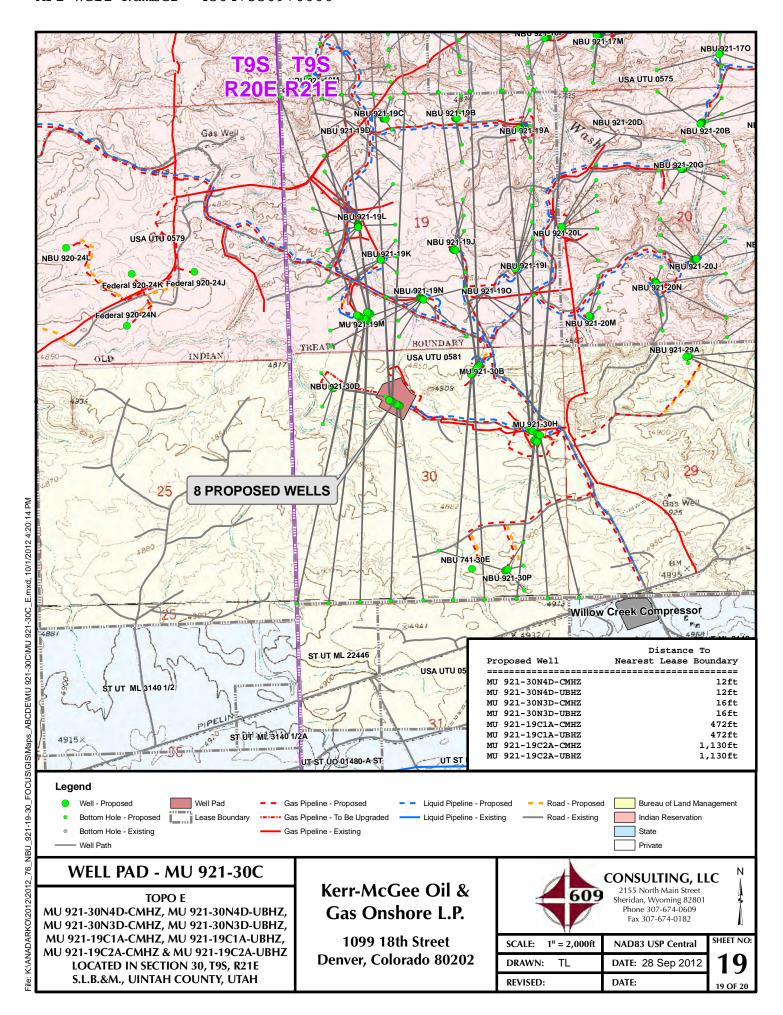












Kerr-McGee Oil & Gas Onshore, LP WELL PAD – MU 921-30C WELL – MU 921-30N4D-CMHZ, MU 921-30N4D -UBHZ, MU 921-30N3D -CMHZ, MU 921-30N3D -UBHZ, MU 921-19C1A-CMHZ, MU 921-19C1A-UBHZ, MU 921-19C2A-CMHZ & MU 921-19C2A-UBHZ Section 30, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 17.7 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly direction along the Class D County Road approximately 3.9 miles to a second Class D County Road to the northwest. Exit right and proceed in a northwesterly direction along the second Class D County Road approximately 0.7 miles to a service road to the west. Exit left and proceed in a westerly direction along the service road approximately 0.6 miles to the proposed well location.

Total distance from Vernal, Utah, to the proposed well location is approximately 46.4 miles in a southerly direction.

**SHEET 20 OF 20** 

API Well Number: 43047 \$ 266 27:000 API - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-19C1A-UBHZ

Scientific Drilling

Wellbore: OH
Design: PLAN #1 PRELIMINARY



														•
						WEL	L DETAILS	S: MU 921	-19C1A-UI	BHZ				
								58 & KB 19 Oft (ASSUM						
								•	<u></u>					
		+N/-S 0.00	+E/- 0.	·W 00		Northing 33234.91		asting 283.66		.atittude 0112530		Longitude -109.5969900		
							DESIGN T	TARGET D	ETAILS					
	Name PBHL	T 4855		N/-S 19.20	+E/- 425.8			thing	E	Easting 8608.54		Latitude	Longitude -109.5954690	Shape
	PDNL		ts target ce		425.6	55	1453965	50.01	2033	5608.54		40.0288510	-109.5954690	Point
							SEC1	TION DETA	AILS					
			MD	Inc	Azi	TVD	+N/-S	+E/-W		TFace	VSect			
			0.00 4282.04		0.00 0.00	0.00 4282.04	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00			
			5182.04 11032.42			4855.00 4855.00	571.70 6409.20	37.99 425.85	10.00 0.00		572.96 6423.33			PBHL
				00.00	0.00	1000100	0.00.20	.20.00	0.00	0.00	0.20.00			
					PRO	JECT DE	TAILS: U	TAH - UTM	(feet), NA	D27, Zo	ne 12N			
				G	eodetic	System:	Universa	I Transvers	se Mercat	or (US S	Survey Fe	eet)		
					ı	Ellipsoid:	Clarke 18	7 (NADCO 866		)				
					ı	Zone:	Zone 12N SECTION	N (114 W to N 30 T9S R	108 W) 21F					
							: Mean Sea							
J.							CAS	ING DETA	ILS					
						TVD		MD	Name					
						2803.00 4855.00	2803 5182		9 5/8" 7"	9.625 7.000				
		FOF	RMATION T	OP DETA	ILS									
TVDPath	MDPa	ath	Form	ation										
1596.00	1596.	.00 GRI	EEN RIVER											
1858.00	1858.	.uu Bii	RDSNEST											

TVDPath	MDPath	Formation	
1596.00	1596.00	GREEN RIVER	
1858.00	1858.00	BIRDSNEST	
2353.00	2353.00	MAHOGANY MARKER	
4351.00	4351.17	<b>GREEN RIVER LOWER</b>	
4800.00	4928.94	UTELAND BUTTE	

API Well Number: 43047536970000 Project: UTAH - UTM (feet), NAD27, Zone 12N

Scientific Drilling

Site: MU 921-30C PAD

Well: MU 921-19C1A-UBHZ

Wellbore: OH

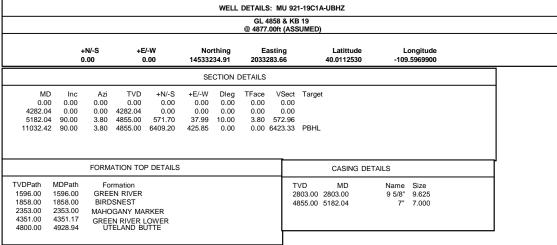
Design: PLAN #1 PRELIMINARY

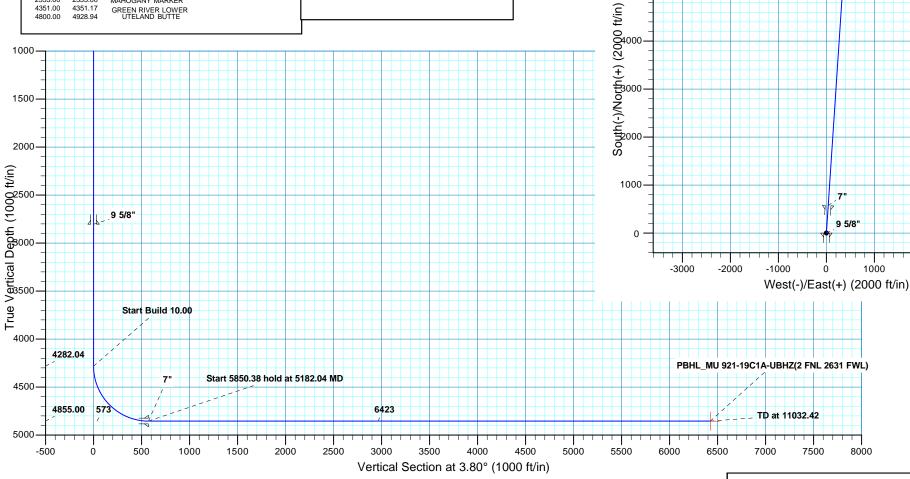


PBHL\_MU 921-19C1A-UBHZ(2 FNL 2631 FWL)

6000-

5000





Plan: PLAN #1 PRELIMINARY (MU 921-19C1A-UBHZ/OH)

Created By: RobertScott Date: 9:00, December 31 2012

2000

3000

4000



## **US ROCKIES REGION PLANNING**

UTAH - UTM (feet), NAD27, Zone 12N MU 921-30C PAD MU 921-19C1A-UBHZ

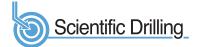
OH

Plan: PLAN #1 PRELIMINARY

## **Standard Planning Report**

31 December, 2012





## SDI Planning Report

MD Reference:

North Reference:



EDM5000-RobertS-Local Database:

US ROCKIES REGION PLANNING

**Local Co-ordinate Reference:** 

Well MU 921-19C1A-UBHZ GL 4858 & KB 19

TVD Reference:

UTAH - UTM (feet), NAD27, Zone 12N Project:

@ 4877.00ft (ASSUMED) GL 4858 & KB 19 @ 4877.00ft (ASSUMED)

Site: MU 921-30C PAD Well: MU 921-19C1A-UBHZ

Wellbore:

Company:

**Survey Calculation Method:** 

Design: PLAN #1 PRELIMINARY

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet) System Datum: Mean Sea Level

NAD 1927 (NADCON CONUS) Geo Datum: Zone 12N (114 W to 108 W) Map Zone:

MU 921-30C PAD, SECTION 30 T9S R21E Site Northing: 14,533,223.24 usft Site Position: Latitude: 40.0112200 From: Lat/Long Easting: 2,033,305.68 usft Longitude: -109.5969120 0.00 ft Slot Radius: 13.200 in **Grid Convergence:** 0.90° **Position Uncertainty:** 

Well MU 921-19C1A-UBHZ, 1093 FNL 2105 FWL **Well Position** 12.02 ft 14.533.234.91 usft 40.0112530 +N/-S Northing: Latitude: +E/-W -21.84 ft Easting: 2,033,283.65 usft Longitude: -109.5969900 **Position Uncertainty** 0.00 ft Wellhead Elevation: **Ground Level:** 4.858.00 ft

ОН Wellbore Field Strength Magnetics **Model Name** Sample Date Declination Dip Angle (°) (°) (nT) IGRF2010 2012/12/31 10.92 65.82 52,169

PLAN #1 PRELIMINARY Design **Audit Notes:** PLAN 0.00 Version: Phase: Tie On Depth: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 3.80

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,282.04	0.00	0.00	4,282.04	0.00	0.00	0.00	0.00	0.00	0.00	
5,182.04	90.00	3.80	4,855.00	571.70	37.99	10.00	10.00	0.00	3.80	
11,032.42	90.00	3.80	4,855.00	6,409.20	425.85	0.00	0.00	0.00	0.00 PBI	HL_MU 921-19C1

RECEIVED: March 04, 2013



# **SDI**Planning Report



Database: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING

Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 MU 921-30C PAD

 Well:
 MU 921-19C1A-UBHZ

Wellbore: OH

Company:

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Well MU 921-19C1A-UBHZ

GL 4858 & KB 19

@ 4877.00ft (ASSUMED) GL 4858 & KB 19

@ 4877.00ft (ASSUMED)

True

Joigii.										
lanned Survey										
Measure Depth (ft)		lination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400	0.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500	0.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
900	0.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000	0.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100	0.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200		0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300		0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400		0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400	5.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500	0.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,596		0.00	0.00	1,596.00	0.00	0.00	0.00	0.00	0.00	0.00
	N RIVER			,						
		0.00	0.00	1 600 00	0.00	0.00	0.00	0.00	0.00	0.00
1,600		0.00	0.00	1,600.00				0.00		
1,700		0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800	0.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,858	8.00	0.00	0.00	1,858.00	0.00	0.00	0.00	0.00	0.00	0.00
BIRDSI				,						
1,900		0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000		0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100		0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200	0.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300	0.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,353	3.00	0.00	0.00	2,353.00	0.00	0.00	0.00	0.00	0.00	0.00
	GANY MAF			,						
2,400		0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500		0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600	0.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700	0.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800		0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,803		0.00	0.00	2,803.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"	5.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	2 000 00	0.00	0.00	0.00	0.00	0.00	0.00
2,900		0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000	J.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100	0.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200		0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300		0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400		0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
				,						
3,500	J.UU	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600	0.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700		0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800		0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900		0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000		0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100		0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200	0.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,282		0.00	0.00	4,282.04	0.00	0.00	0.00	0.00	0.00	0.00



# **SDI**Planning Report



Database: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING

Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 MU 921-30C PAD

 Well:
 MU 921-19C1A-UBHZ

Wellbore: OH

Company:

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

**Survey Calculation Method:** 

Well MU 921-19C1A-UBHZ

GL 4858 & KB 19

@ 4877.00ft (ASSUMED) GL 4858 & KB 19

@ 4877.00ft (ASSUMED)

True

ign:	PLAN #1 PRE	LIMINAIN							
nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Start Build	10.00								
4,300.00	1.80	3.80	4,300.00	0.28	0.02	0.28	10.00	10.00	0.00
4,351.17	6.91	3.80	4,351.00	4.16	0.28	4.16	10.00	10.00	0.00
GREEN RIV	ER LOWER								
4,400.00	11.80	3.80	4,399.17	12.07	0.80	12.10	10.00	10.00	0.00
4,500.00	21.80	3.80	4,494.78	40.87	2.72	40.96	10.00	10.00	0.00
4,600.00	31.80	3.80	4,583.93	85.79	5.70	85.98	10.00	10.00	0.00
4,700.00	41.80	3.80	4,663.91	145.48	9.67	145.80	10.00	10.00	0.00
4,800.00	51.80	3.80	4,732.28	218.12	14.49	218.60	10.00	10.00	0.00
4,900.00	61.80	3.80	4,786.97	301.50	20.03	302.17	10.00	10.00	0.00
4,928.94	64.69	3.80	4,800.00	327.29	21.75	328.01	10.00	10.00	0.00
UTELAND E			4 000 00	000 10		000	,		
5,000.00	71.80	3.80	4,826.32	393.10	26.12	393.96	10.00	10.00	0.00
5,100.00	81.80	3.80	4,849.14	490.11	32.57	491.20	10.00	10.00	0.00
5,182.04	90.00	3.80	4,855.00	571.70	37.99	572.96	10.00	10.00	0.00
Start 5850.3	38 hold at 5182.04	1 MD - 7"							
5,200.00	90.00	3.80	4,855.00	589.62	39.18	590.92	0.00	0.00	0.00
5,300.00	90.00	3.80	4,855.00	689.40	45.81	690.92	0.00	0.00	0.00
5,400.00	90.00	3.80	4,855.00	789.18	52.44	790.92	0.00	0.00	0.00
5,500.00	90.00	3.80	4,855.00	888.96	59.07	890.92	0.00	0.00	0.00
5,600.00	90.00	3.80	4,855.00	988.74	65.70	990.92	0.00	0.00	0.00
5,700.00	90.00	3.80	4,855.00	1,088.52	72.33	1,090.92	0.00	0.00	0.00
5,800.00	90.00	3.80	4,855.00	1,188.30	78.96	1,190.92	0.00	0.00	0.00
5,900.00	90.00	3.80	4,855.00	1,288.08	85.58	1,290.92	0.00	0.00	0.00
6,000.00	90.00	3.80	4,855.00	1,387.86	92.21	1,390.92	0.00	0.00	0.00
6,100.00	90.00	3.80	4,855.00	1,487.64	98.84	1,490.92	0.00	0.00	0.00
6,200.00	90.00	3.80	4,855.00	1,587.42	105.47	1,590.92	0.00	0.00	0.00
6,300.00	90.00	3.80	4,855.00	1,687.20	112.10	1,690.92	0.00	0.00	0.00
6,400.00	90.00	3.80	4,855.00	1,786.98	118.73	1,790.92	0.00	0.00	0.00
6,500.00	90.00	3.80	4,855.00	1,886.76	125.36	1,890.92	0.00	0.00	0.00
6,600.00	90.00	3.80	4,855.00	1,986.54	131.99	1,990.92	0.00	0.00	0.00
6,700.00	90.00	3.80	4,855.00	2,086.32	138.62	2,090.92	0.00	0.00	0.00
6,800.00	90.00	3.80	4,855.00	2,186.10	145.25	2,190.92	0.00	0.00	0.00
6,900.00	90.00	3.80	4,855.00	2,285.88	151.88	2,290.92	0.00	0.00	0.00
7,000.00	90.00	3.80	4,855.00	2,385.66	158.51	2,390.92	0.00	0.00	0.00
7,100.00	90.00	3.80	4,855.00	2,485.44	165.14	2,490.92	0.00	0.00	0.00
7,200.00	90.00	3.80	4,855.00	2,585.22	171.77	2,590.92	0.00	0.00	0.00
7,300.00	90.00	3.80	4,855.00	2,685.00	178.40	2,690.92	0.00	0.00	0.00
7,400.00	90.00	3.80	4,855.00	2,784.78	185.03	2,790.92	0.00	0.00	0.00
7,500.00	90.00	3.80	4,855.00	2,884.56	191.66	2,890.92	0.00	0.00	0.00
7,600.00	90.00	3.80	4,855.00	2,984.34	198.29	2,990.92	0.00	0.00	0.00
7,700.00	90.00	3.80	4,855.00	3,084.12	204.92	3,090.92	0.00	0.00	0.00
7,800.00	90.00	3.80	4,855.00	3,183.90	211.55	3,190.92	0.00	0.00	0.00
7,900.00	90.00	3.80	4,855.00	3,283.68	218.18	3,290.92	0.00	0.00	0.00
8,000.00	90.00	3.80	4,855.00	3,383.46	224.81	3,390.92	0.00	0.00	0.00
8,100.00	90.00	3.80	4,855.00	3,483.24	231.44	3,490.92	0.00	0.00	0.00
8,200.00	90.00	3.80	4,855.00	3,583.02	238.07	3,590.92	0.00	0.00	0.00
8,300.00	90.00	3.80	4,855.00	3,682.80	244.70	3,690.92	0.00	0.00	0.00
8,400.00	90.00	3.80	4,855.00	3,782.58	251.33	3,790.92	0.00	0.00	0.00
8,500.00	90.00	3.80	4,855.00	3,882.36	257.96	3,890.92	0.00	0.00	0.00
8,600.00	90.00	3.80	4,855.00	3,982.14	264.59	3,990.92	0.00	0.00	0.00



## SDI **Planning Report**



EDM5000-RobertS-Local Database: Company:

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N Project:

Site: MU 921-30C PAD Well: MU 921-19C1A-UBHZ

Wellbore:

Design: PLAN #1 PRELIMINARY Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

**Survey Calculation Method:** 

Well MU 921-19C1A-UBHZ

GL 4858 & KB 19

@ 4877.00ft (ASSUMED)

GL 4858 & KB 19 @ 4877.00ft (ASSUMED)

True

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,700.00	90.00	3.80	4,855.00	4,081.92	271.22	4,090.92	0.00	0.00	0.00
8,800.00	90.00	3.80	4,855.00	4,181.70	277.85	4,190.92	0.00	0.00	0.00
8,900.00	90.00	3.80	4,855.00	4,281.48	284.48	4,290.92	0.00	0.00	0.00
9,000.00	90.00	3.80	4,855.00	4,381.26	291.11	4,390.92	0.00	0.00	0.00
9,100.00	90.00	3.80	4,855.00	4,481.04	297.74	4,490.92	0.00	0.00	0.00
9,200.00	90.00	3.80	4,855.00	4,580.82	304.37	4,590.92	0.00	0.00	0.00
9,300.00	90.00	3.80	4,855.00	4,680.60	311.00	4,690.92	0.00	0.00	0.00
9,400.00	90.00	3.80	4,855.00	4,780.38	317.63	4,790.92	0.00	0.00	0.00
9,500.00	90.00	3.80	4,855.00	4,880.16	324.26	4,890.92	0.00	0.00	0.00
9,600.00	90.00	3.80	4,855.00	4,979.94	330.89	4,990.92	0.00	0.00	0.00
9,700.00	90.00	3.80	4,855.00	5,079.72	337.52	5,090.92	0.00	0.00	0.00
9,800.00	90.00	3.80	4,855.00	5,179.50	344.15	5,190.92	0.00	0.00	0.00
9,900.00	90.00	3.80	4,855.00	5,279.28	350.78	5,290.92	0.00	0.00	0.00
10,000.00	90.00	3.80	4,855.00	5,379.06	357.41	5,390.92	0.00	0.00	0.00
10,100.00	90.00	3.80	4,855.00	5,478.84	364.04	5,490.92	0.00	0.00	0.00
10,200.00	90.00	3.80	4,855.00	5,578.62	370.67	5,590.92	0.00	0.00	0.00
10,300.00	90.00	3.80	4,855.00	5,678.40	377.30	5,690.92	0.00	0.00	0.00
10,400.00	90.00	3.80	4,855.00	5,778.18	383.93	5,790.92	0.00	0.00	0.00
10,500.00	90.00	3.80	4,855.00	5,877.95	390.55	5,890.92	0.00	0.00	0.00
10,600.00	90.00	3.80	4,855.00	5,977.73	397.18	5,990.92	0.00	0.00	0.00
10,700.00	90.00	3.80	4,855.00	6,077.51	403.81	6,090.92	0.00	0.00	0.00
10,800.00	90.00	3.80	4,855.00	6,177.29	410.44	6,190.92	0.00	0.00	0.00
10,900.00	90.00	3.80	4,855.00	6,277.07	417.07	6,290.92	0.00	0.00	0.00
11,000.00	90.00	3.80	4,855.00	6,376.85	423.70	6,390.92	0.00	0.00	0.00
11,032.42	90.00	3.80	4,855.00	6,409.20	425.85	6,423.33	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_MU 921-19C1A-L - plan hits target cen - Point	0.00 ter	0.00	4,855.00	6,409.20	425.85	14,539,650.01	2,033,608.53	40.0288510	-109.5954690

Casing Points							
	Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter	
	(ft)	(ft)		Name	(in)	(in)	
	2,803.00	2,803.00	9 5/8"		9.625	12.250	
	5,182.04	4,855.00	7"		7.000	7.500	



## SDI **Planning Report**



EDM5000-RobertS-Local Database: Company:

US ROCKIES REGION PLANNING

Project: UTAH - UTM (feet), NAD27, Zone 12N

Site: MU 921-30C PAD Well: MU 921-19C1A-UBHZ

Wellbore:

Design: PLAN #1 PRELIMINARY Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

**Survey Calculation Method:** 

Well MU 921-19C1A-UBHZ

GL 4858 & KB 19

@ 4877.00ft (ASSUMED)

GL 4858 & KB 19 @ 4877.00ft (ASSUMED)

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,596.00	1,596.00	GREEN RIVER				
	1,858.00	1,858.00	BIRDSNEST				
	2,353.00	2,353.00	MAHOGANY MARKER				
	4,351.17	4,351.00	GREEN RIVER LOWER				
	4,928.94	4,800.00	UTELAND BUTTE				

Plan Annotations					
Measu	ured	Vertical	Local Coord	linates	
Dept	th	Depth	+N/-S	+E/-W	
(ft)	)	(ft)	(ft)	(ft)	Comment
4,28	82.04	4,282.04	0.00	0.00	Start Build 10.00
5,18	82.04	4,855.00	571.70	37.99	Start 5850.38 hold at 5182.04 MD
11,03	32.42	4,855.00	6,409.20	425.85	TD at 11032.42

MU 921-19C1A-CMHZ/ 921-19C1A-UBHZ/ 921-19C2A-CMHZ/ 921-19C2A-UBHZ MU 921-30N3D-CMHZ/921-30N3D-UBHZ/ 921-30N4D-CMHZ/ 921-30N4D-UBHZ Kerr-McGee Oil Gas Onshore, L.P.

## Kerr-McGee Oil & Gas Onshore. L.P.

## MU 921-30C PAD

<u>API #</u>		MU 921-19C1A-CMHZ		
	Surface:	1105 FNL / 2127 FWL	NENW	Section 30
	BHL:	2 FNL / 2631 FWL	NENW	Section 19
<u>API #</u>		MU 921-19C1A-UBHZ		
	Surface:	1093 FNL / 2105 FWL	NENW	Section 30
	BHL:	2 FNL / 2631 FWL	NENW	Section 19
<u>API #</u>		MU 921-19C2A-CMHZ		
	Surface:	1080 FNL / 2084 FWL	NENW	Section 30
	BHL:	7 FNL / 1973 FWL	NENW	Section 19
<u>API #</u>		MU 921-19C2A-UBHZ		
	Surface:	1068 FNL / 2062 FWL	NENW	Section 30
	BHL:	7 FNL / 1973 FWL	NENW	Section 19
<u>API #</u>		MU 921-30N3D-CMHZ		
	C		NIENINA/	
	Surrace:	1167 FNL / 2236 FWL	NENW	Section 30
	Surrace: BHL:		SESW	Section 30 Section 30
<u>API #</u>	BHL:			
<u>API #</u>	BHL:	16 FSL / 1965 FWL		
<u>API #</u>	BHL:	16 FSL / 1965 FWL  MU 921-30N3D-UBHZ	SESW	Section 30
<u>API #</u>	BHL: Surface: BHL:	16 FSL / 1965 FWL  MU 921-30N3D-UBHZ  1155 FNL / 2214 FWL	SESW	Section 30
_	BHL: Surface: BHL:	16 FSL / 1965 FWL  MU 921-30N3D-UBHZ  1155 FNL / 2214 FWL  16 FSL / 1965 FWL	SESW	Section 30
_	BHL: Surface: BHL:	16 FSL / 1965 FWL  MU 921-30N3D-UBHZ  1155 FNL / 2214 FWL  16 FSL / 1965 FWL  MU 921-30N4D-CMHZ	SESW NENW SESW	Section 30 Section 30 Section 30
_	Surface: BHL: Surface: BHL:	16 FSL / 1965 FWL  MU 921-30N3D-UBHZ  1155 FNL / 2214 FWL 16 FSL / 1965 FWL  MU 921-30N4D-CMHZ  1192 FNL / 2279 FWL	NENW SESW	Section 30 Section 30 Section 30
<u>API #</u>	Surface: BHL: Surface: BHL:	16 FSL / 1965 FWL  MU 921-30N3D-UBHZ  1155 FNL / 2214 FWL 16 FSL / 1965 FWL  MU 921-30N4D-CMHZ  1192 FNL / 2279 FWL 12 FSL / 2642 FWL	NENW SESW	Section 30 Section 30 Section 30

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

MU 921-19C1A-CMHZ/ 921-19C1A-UBHZ/ 921-19C2A-CMHZ/ 921-19C2A-UBHZ MU 921-30N3D-CMHZ/921-30N3D-UBHZ/ 921-30N4D-CMHZ/ 921-30N4D-UBHZ Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 2 of 5

An on-site meeting was held on October 23, 2012. Present were:

- · Dave Gordon, Tyler Cox, Melissa Wardle BLM;
- · Mitch Batty Timberline Engineering & Land Surveying, Inc.; and
- Randy Townley, Casey McKee, Cara Mahler, Danielle Piernot, Justin Brady, Rod Anderson and Charles Chase, - Kerr-McGee
- Scott Carson Smiling Lake
- John Mills J.C. Construction

### A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

#### B. New or Reconstructed Access Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

There are no new access roads associated with this pad.

## C. Location of Existing Wells:

Please refer to Topo C for exiting wells.

#### D. Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

This pad will expand the existing pad for the NBU 921-30C, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on January 10, 2013. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

## **GAS GATHERING**

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total new gas gathering pipeline distance from the meter to the tie in point is  $\pm 3,655$ ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

 $\pm 3{,}655~(0.69~miles)$  – Section 30 T9S R21E (NE/4 NW/4) – On-lease UTU0581, Tribal surface, New 6" and 10" buried gas gathering pipeline from the meter to the MU 921-30H intersection. Please refer to Topo D2 - Pad and Pipeline Detail.

 $\pm 795^{\circ}$  (0.15 miles) – Section 30 T9S R21E (NE/4 NW/4) – On-lease UTU0581, Tribal surface, 4" surface gas gathering pipeline re-route around the northeastern edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

MU 921-19C1A-CMHZ/ 921-19C1A-UBHZ/ 921-19C2A-CMHZ/ 921-19C2A-UBHZ MU 921-30N3D-CMHZ/921-30N3D-UBHZ/ 921-30N4D-CMHZ/ 921-30N4D-UBHZ Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 3 of 5

#### LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is ±3,655' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±3,655' (0.69 miles) – Section 30 T9S R21E (NE/4 NW/4) – On-lease UTU0581, Tribal surface, New 6" buried liquid gathering pipeline from the separator to the MU 921-36H intersection. Please refer to Topo D2 - Pad and Pipeline Detail.

## **Pipeline Gathering Construction**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

## The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

## E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Water will be hauled to location over the roads marked on Maps A and B.

#### F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

## G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

## **Materials Management**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

## I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

MU 921-19C1A-CMHZ/ 921-19C1A-UBHZ/ 921-19C2A-CMHZ/ 921-19C2A-UBHZ MU 921-30N3D-CMHZ/921-30N3D-UBHZ/ 921-30N4D-CMHZ/ 921-30N4D-UBHZ Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 4 of 5

### J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Interim Reclamation**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Final Reclamation**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Measures Common to Interim and Final Reclamation**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Weed Control**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

## K. Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

## L. Other Information:

#### **Cultural and Paleontological Resources**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

## **Resource Reports:**

A Class I literature survey was completed on November 7, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 12-283.

A paleontological reconnaissance survey was completed on October 5, 2012 by SWCA Environmental Consultants. For additional details please refer to report UT12-14314-186.

Biological field survey was completed on October 16, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-851.

## **Proposed Action Annual Emissions Tables:**

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

MU 921-19C1A-CMHZ/ 921-19C1A-UBHZ/ 921-19C2A-CMHZ/ 921-19C2A-UBHZ MU 921-30N3D-CMHZ/921-30N3D-UBHZ/ 921-30N4D-CMHZ/ 921-30N4D-UBHZ Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 5 of 5

#### M. Lessee's or Operators' Representative & Certification:

Danielle Piernot Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6156 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

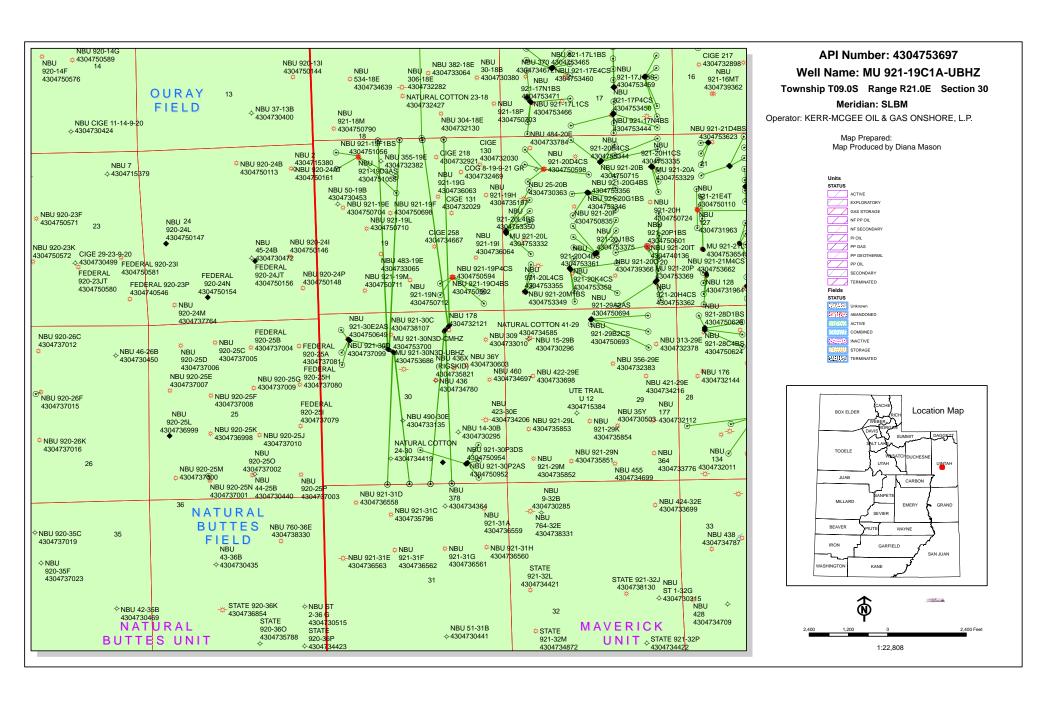
Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Daniei Po

January 13, 2013

Date



API Well Number: 43047536970000

# **United States Department of the Interior**

#### BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

March 18, 2013

Memorandum

To: Assistant Field Office Manager Minerals

Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Maverick Unit,

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Maverick Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ GREEN RIVER)

#### MU 921-30C PAD

43-047-53685 MU 921-19C2A-CMHZ Sec 30 T09S R21E 1080 FNL 2084 FWL Lateral 1 Sec 19 T09S R21E 0007 FNL 1973 FWL 43-047-53699 MU 921-19C2A-UBHZ Sec 30 T09S R21E 1068 FNL 2062 FWL Lateral 1 Sec 19 T09S R21E 0007 FNL 1973 FWL 43-047-53700 MU 921-30N3D-CMHZ Sec 30 T09S R21E 1167 FNL 2236 FWL Lateral 1 Sec 30 T09S R21E 0016 FSL 1965 FWL 43-047-53686 MU 921-30N3D-UBHZ Sec 30 T09S R21E 1155 FNL 2214 FWL Lateral 1 Sec 30 T09S R21E 0016 FSL 1965 FWL 43-047-53698 MU 921-30N4D-CMHZ Sec 30 T09S R21E 1192 FNL 2279 FWL Lateral 1 Sec 30 T09S R21E 0012 FSL 2642 FWL 43-047-53687 MU 921-30N4D-UBHZ Sec 30 T09S R21E 1180 FNL 2257 FWL Lateral 1 Sec 30 T09S R21E 0012 FSL 2642 FWL 43-047-53688 MU 921-19C1A-CMHZ Sec 30 T09S R21E 1105 FNL 2127 FWL Lateral 1 Sec 19 T09S R21E 0002 FNL 2631 FWL 43-047-53697 MU 921-19C1A-UBHZ Sec 30 T09S R21E 1093 FNL 2105 FWL Lateral 1 Sec 19 T09S R21E 0002 FNL 2631 FWL

RECEIVED: March 19, 2013

API Well Number: 43047536970000

Page 2

API # WELL NAME LOCATION

(Proposed PZ GREEN RIVER)

MU 921-30B PAD 43-047-53689 MU 921-19B1B-UBHZ Sec 30 T09S R21E 0413 FNL 1730 FEL Lateral 1 Sec 19 T09S R21E 0002 FNL 1756 FEL

43-047-53690 MU 921-19B2A-CMHZ Sec 30 T09S R21E 0431 FNL 1748 FEL Lateral 1 Sec 19 T09S R21E 0002 FNL 2414 FEL

43-047-53691 MU 921-19B2A-UBHZ Sec 30 T09S R21E 0449 FNL 1765 FEL Lateral 1 Sec 19 T09S R21E 0002 FNL 2414 FEL

43-047-53692 MU 921-3003D-CMHZ Sec 30 T09S R21E 0556 FNL 1871 FEL

Lateral 1 Sec 30 T09S R21E 0009 FSL 2372 FEL

43-047-53693 MU 921-3003D-UBHZ Sec 30 T09S R21E 0573 FNL 1888 FEL

Lateral 1 Sec 30 T09S R21E 0009 FSL 2372 FEL

43-047-53694 MU 921-3004D-CMHZ Sec 30 T09S R21E 0520 FNL 1836 FEL

Lateral 1 Sec 30 T09S R21E 0006 FSL 1714 FEL

43-047-53695 MU 921-3004D-UBHZ Sec 30 T09S R21E 0538 FNL 1853 FEL

Lateral 1 Sec 30 T09S R21E 0006 FSL 1714 FEL

This office has no objection to permitting the wells at this time.

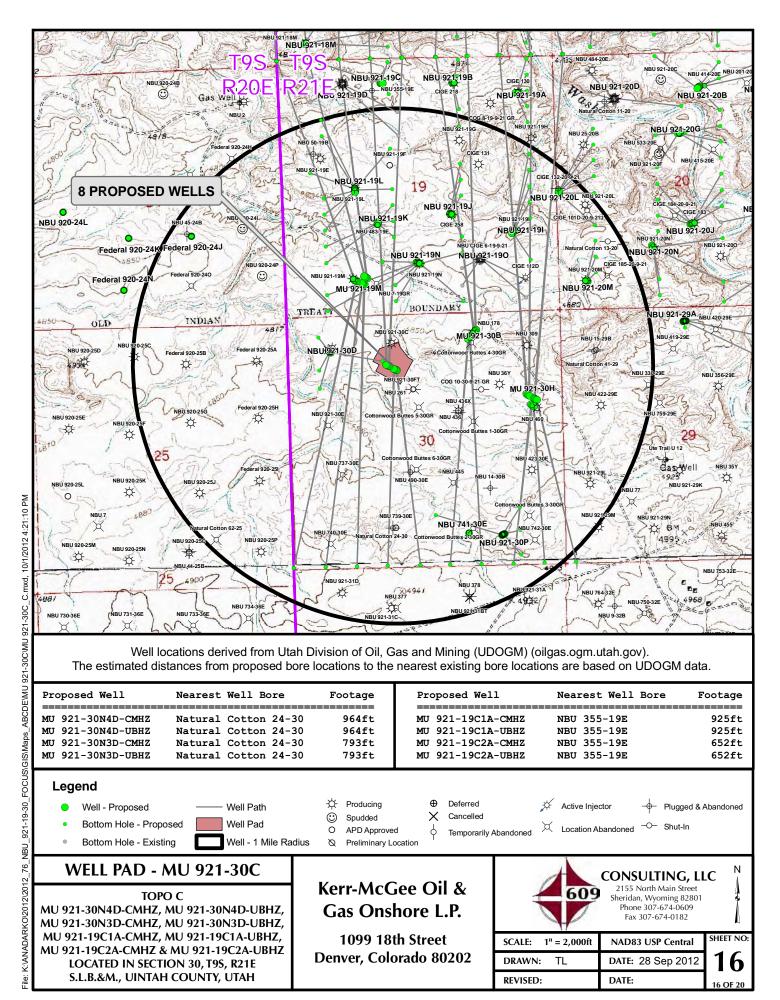
Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land
Management, ou=Branch of Minerals,
mail—Michael C. Coulthard(b), output
Management, ou=Branch of Minerals,
mail—Michael Coulthard(b), pox, c=US
Date: 2013.03.18 10:41:20-06'00'

bcc: File - Maverick Unit

Division of Oil Gas and Mining

Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:3-18-13



oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-19C2A-CMHZ Project: \Site: |

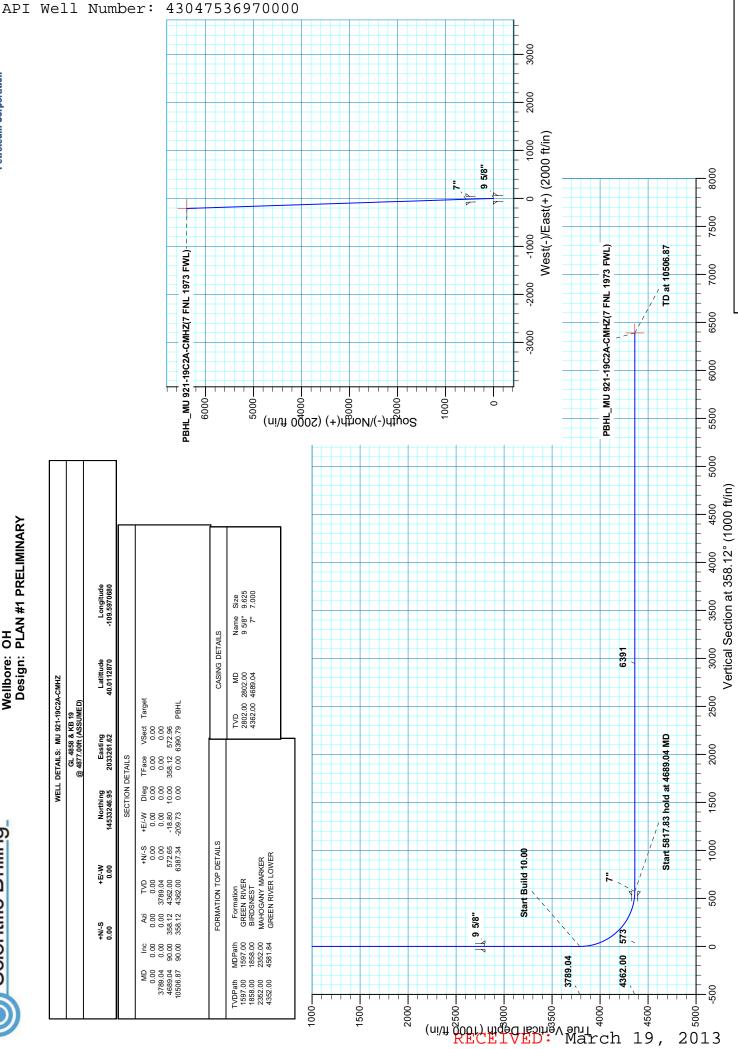
Wellbore: OH

Design: PLAN #1 PRELIMINARY

WELL DETAILS: MU 921-19C2A-CMHZ





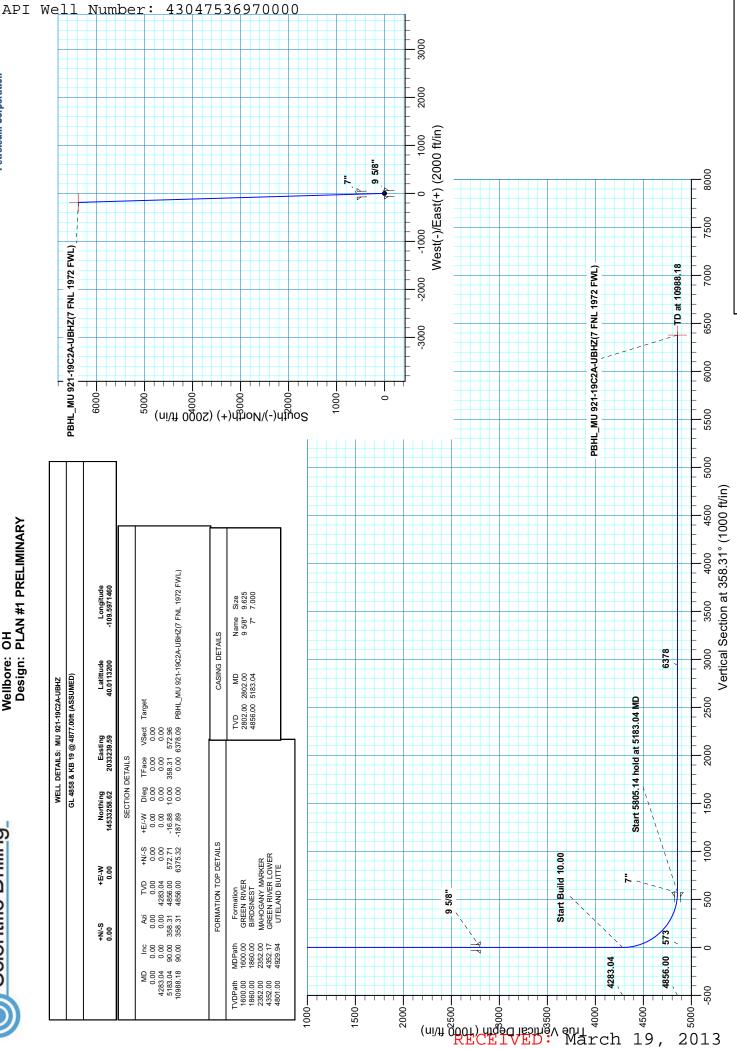




oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-19C2A-UBHZ Project:

딩 Wellbore:



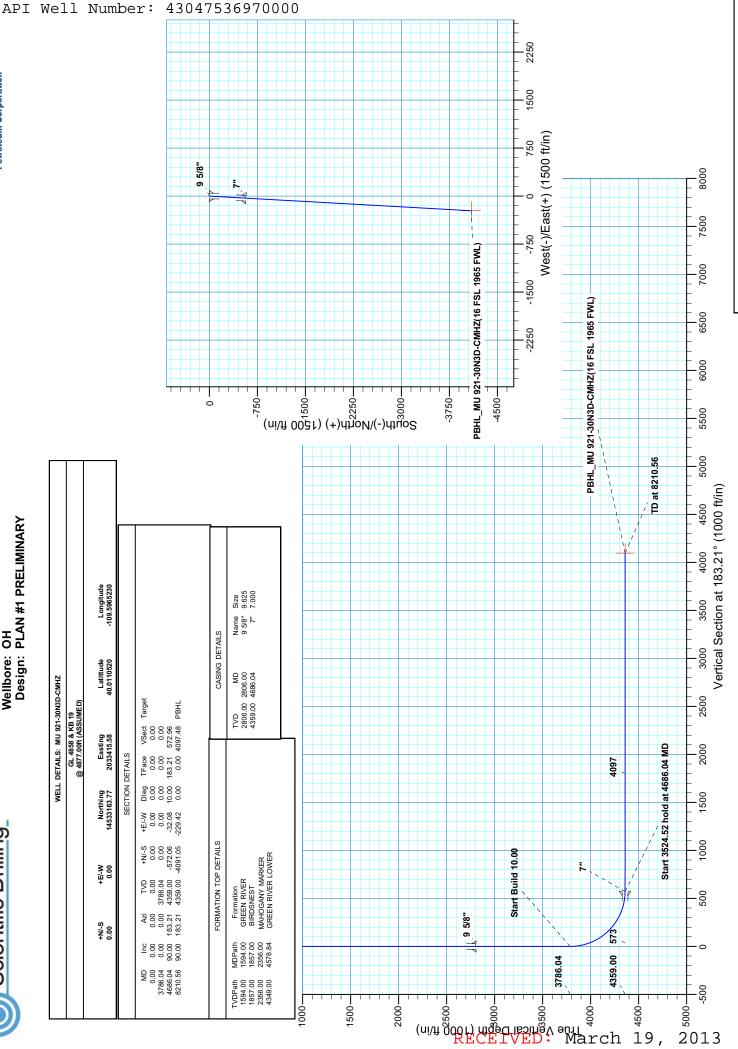




oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-30N3D-CMHZ Project: 1 Site: I

R Wellbore:



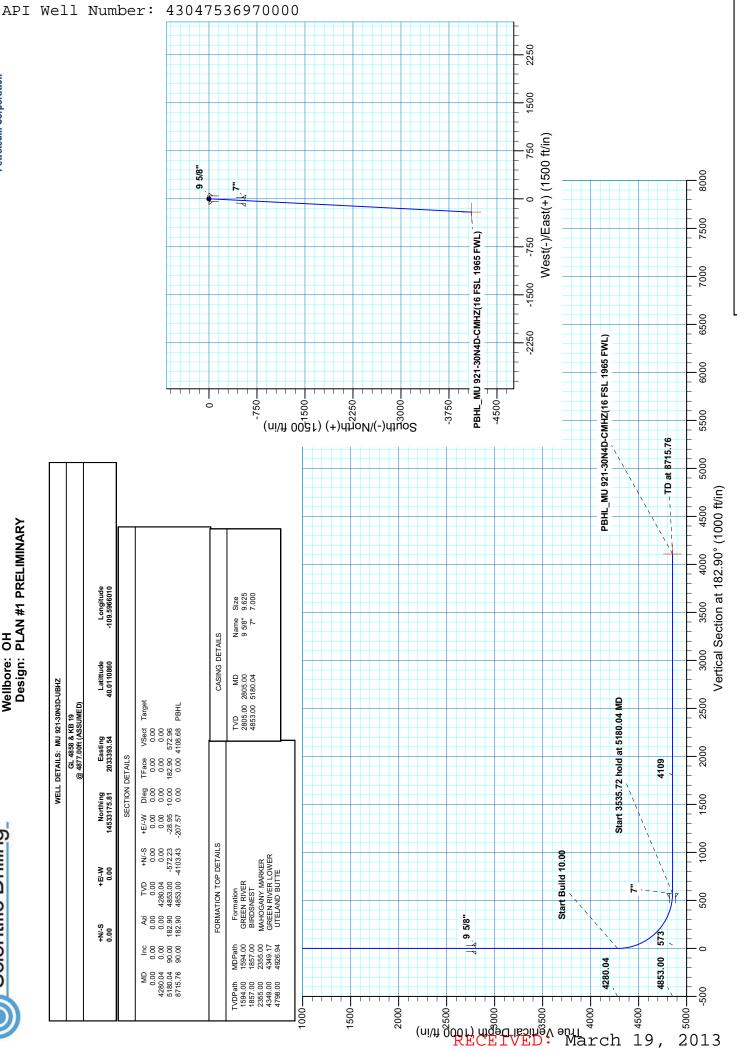


oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-30N3D-UBHZ Project: 1 Site: I

ᆼ

Wellbore:



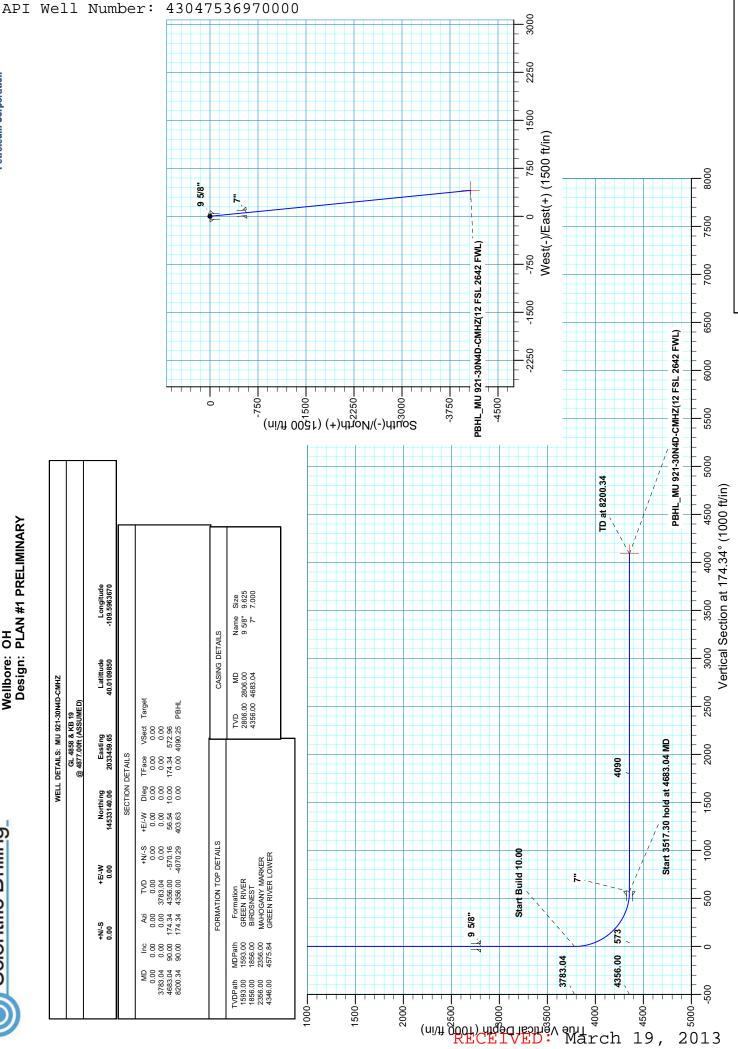




oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-30N4D-CMHZ Project: \Site: |

Ы Wellbore:





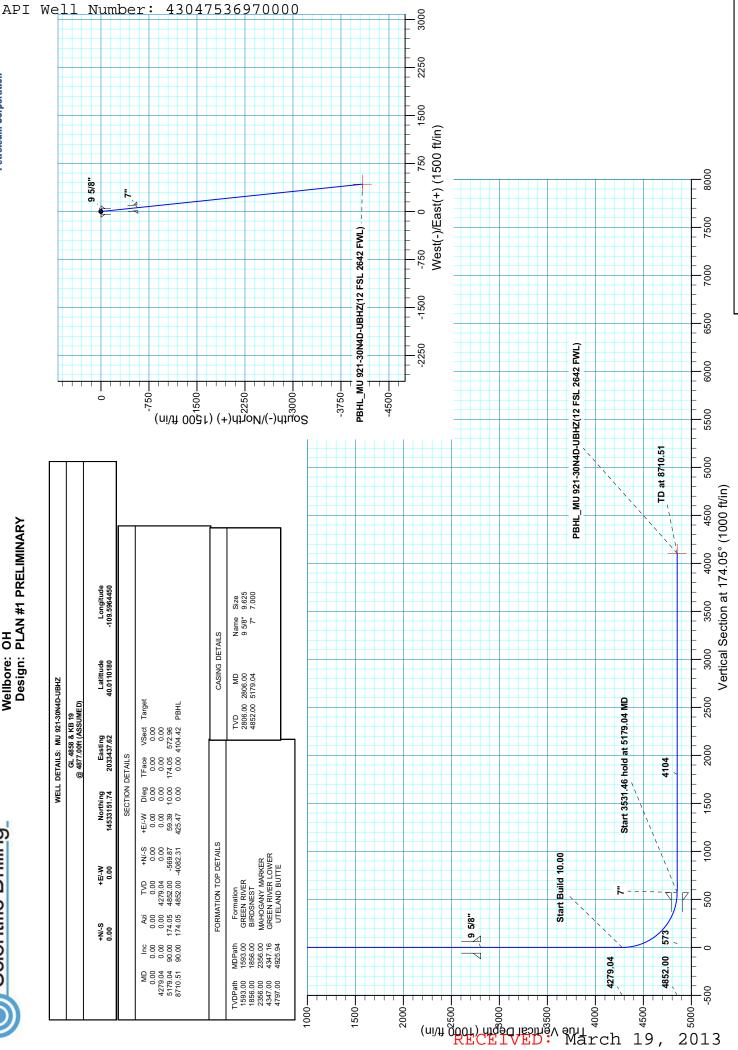


oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-30N4D-UBHZ Project:

Ы Wellbore:









oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-19C1A-CMHZ Project:

Wellbore: OH

Design: PLAN #1 PRELIMINARY

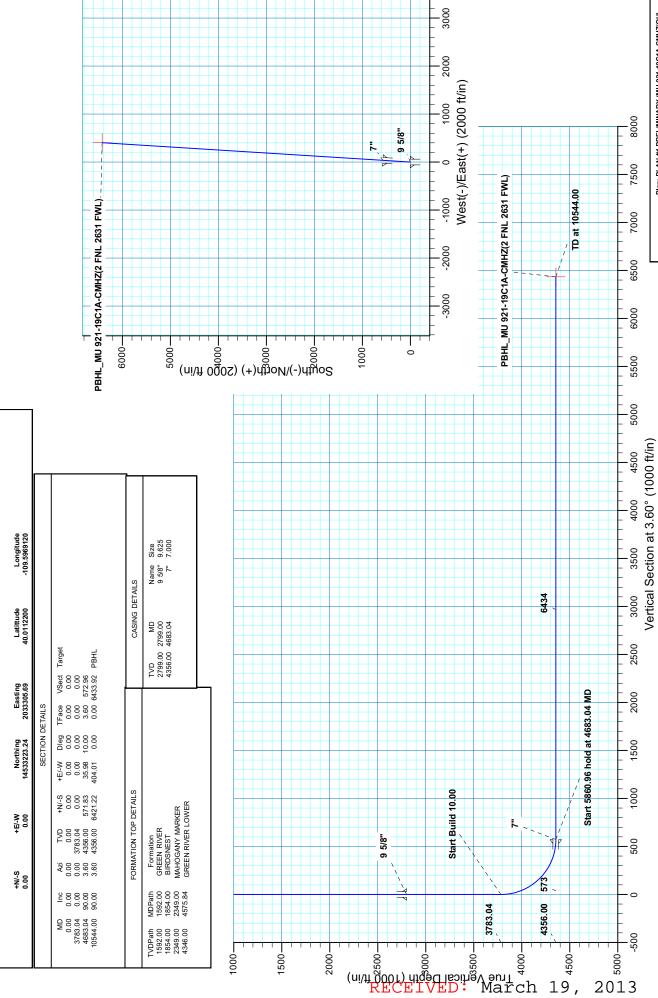
WELL DETAILS: MU 921-19C1A-CMHZ

GL 4858 & KB 19 @ 4877.00ft (ASSUMED)



API Well Number:

43047536970000





oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-19C1A-UBHZ Project: \Site: |

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Wellbore:

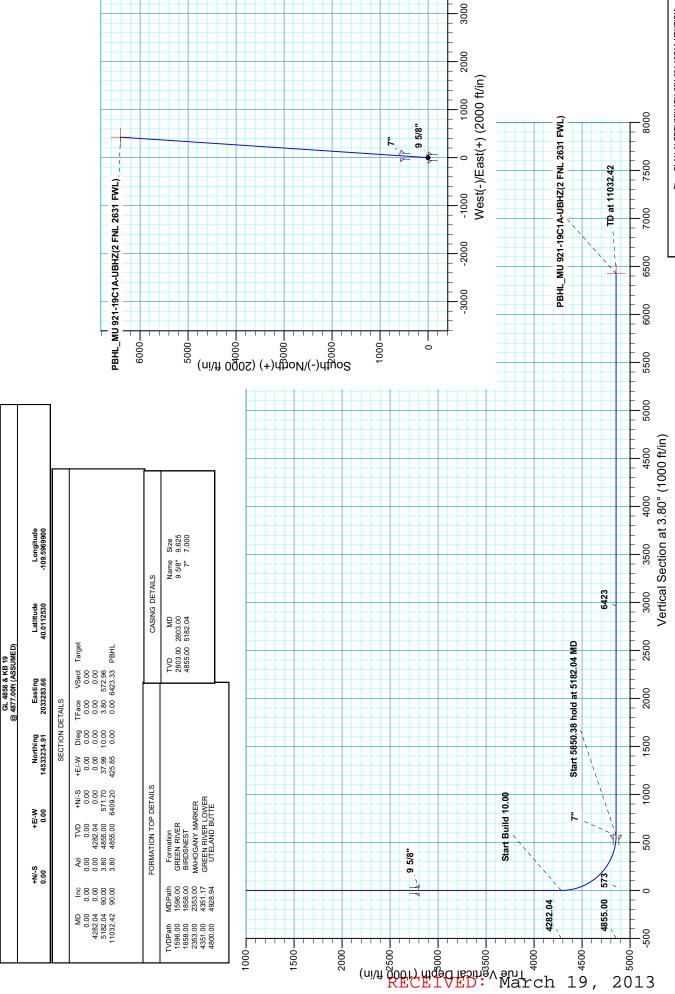
Design: PLAN #1 PRELIMINARY

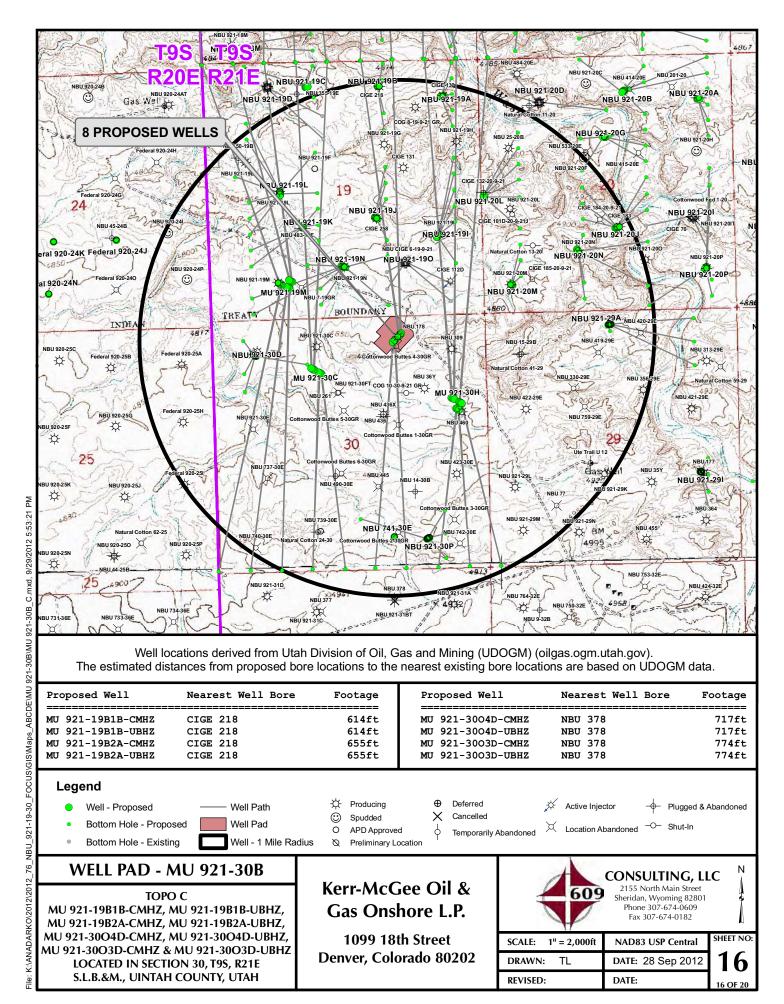
WELL DETAILS: MU 921-19C1A-UBHZ



API Well Number:

43047536970000





oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30B PAD Well: MU 921-19B1B-UBHZ Project: \Site: |

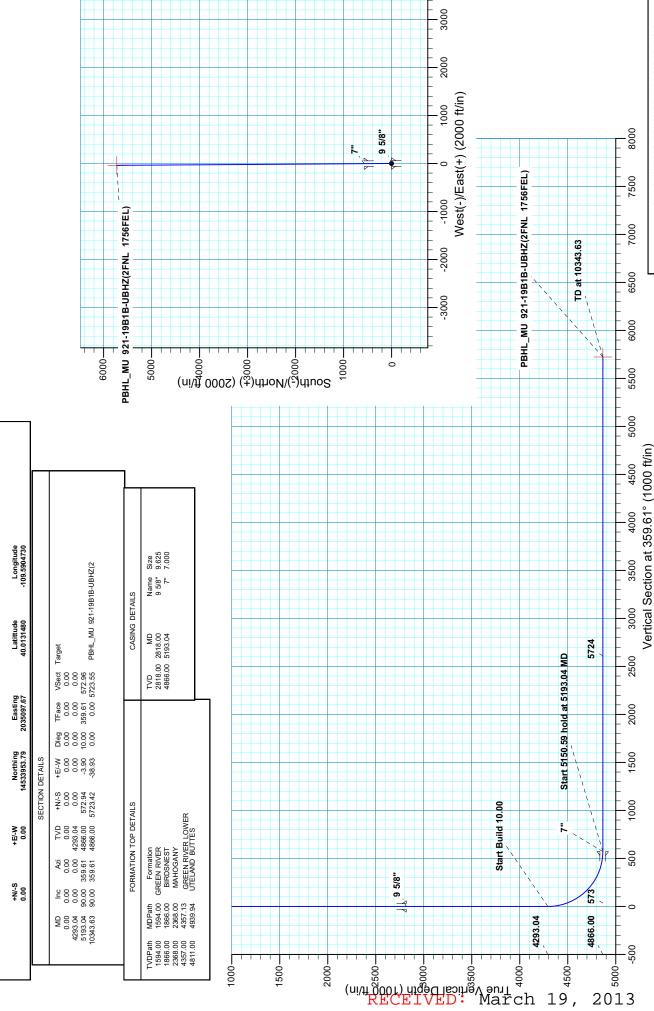
ᆼ Wellbore:

GL 4853 & KB 19 @ 4872.00ft (ASSUMED) WELL DETAILS: MU 921-19B1B-UBHZ

Design: PLAN#1 PRELIMINARY



API Well Number:





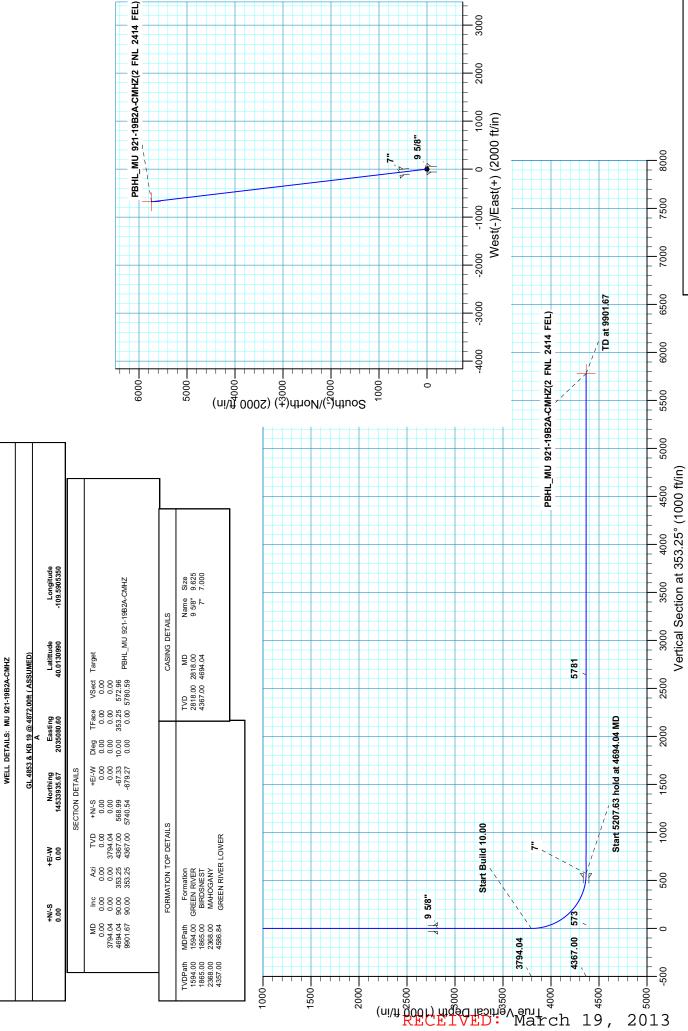
oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30B PAD Well: MU 921-19B2A-CMHZ Ibore: OH Project: U Site: I

Wellbore:

Design: PLAN#1 PRELIMINARY



API Well Number:





oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30B PAD Well: MU 921-19B2A-UBHZ Project: 1 Site: I

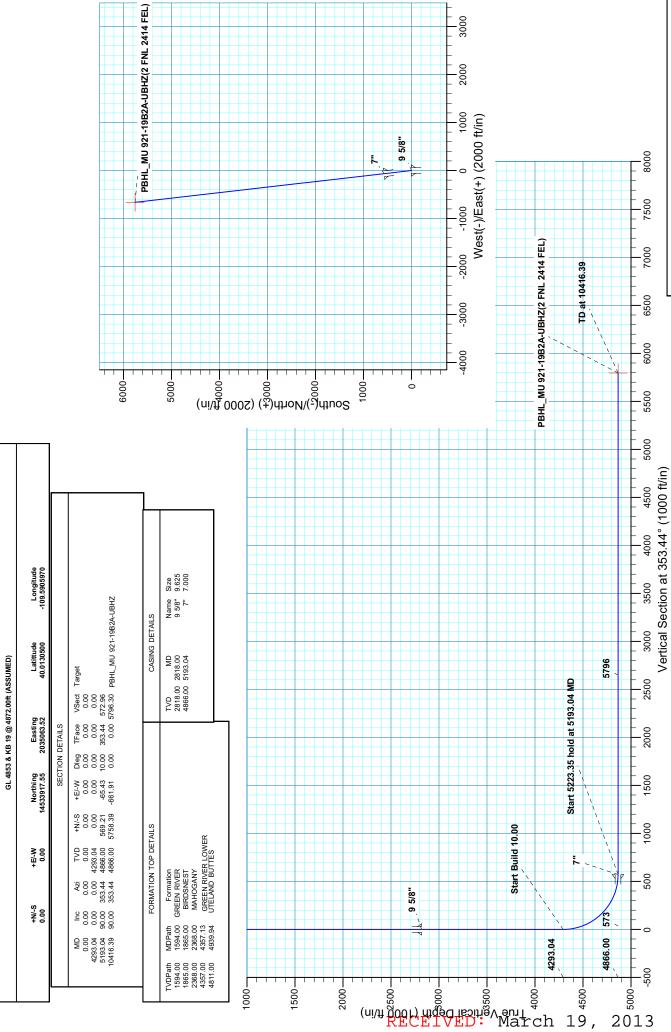
ᆼ Wellbore:

Design: PLAN#1 PRELIMINARY

WELL DETAILS: MU 921-19B2A-UBHZ



API Well Number:



Scientific Drilling

WELL DETAILS: MU 921-3003D-CMHZ

Project: UTAH - UTM (feet), NAD27, Zone Site: MU 921-30B PAD Well: MU 921-3003D-CMHZ

Anadarko A

Design: PLAN #1 PRELIMINARY Wellbore: OH

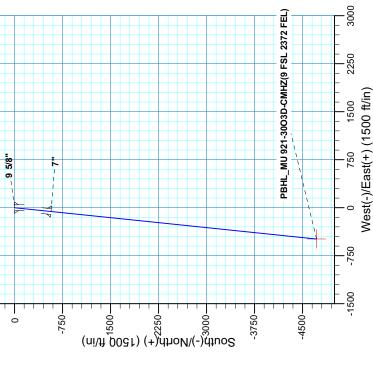
-750-+E/-W Dleg TFace VSect Target 0.00 0.00 0.00 0.00 -58.98 10.00 165.91 572.96 488.25 0.00 0.004743.40 PBHL\_MU 921-30O3D-CMHZ(9 FSL 2372 FEL) Longitude -109.5909720 Size 9.625 7.000 Name 9 5/8" 7" CASING DETAILS Latittude 40.0127560 GL 4853 & KB 19 @ 4872.00ft (ASSUMED) TVD MD 2818.0@818.00 4364.0@691.04 Northing Easting 14533808.83 2034960.20 SECTION DETAILS Formation GREEN RIVER BIRDSNEST MAHOGANY GREEN RIVER LOWER FORMATION TOP DETAILS MD Inc Azi TVD +N/-S 0.00 0.00 0.00 0.00 0.00 3791.04 0.00 3791.04 0.00 44691.04 90.00 185.91 4364.00 -566.91 8861.48 90.00 185.91 4364.00 -4718.20 0.00 +N/-S 0.00 MDPath 1593.00 1863.00 2368.00 4583.84

TVDPath 1593.00 1863.00 12368.00 24354.00 4

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2000-



TD at 8861.48

4743

4364.00

9 1

4000

Start Build 10.00

3791.04

(uili goor) riged isology enri RECETVED: March

9 5/8"

Start 4170.44 hold at 4691.04 MD

2013

4500

2000

4500

4000

Vertical Section at 185.91° (1000 ft/in)

1000



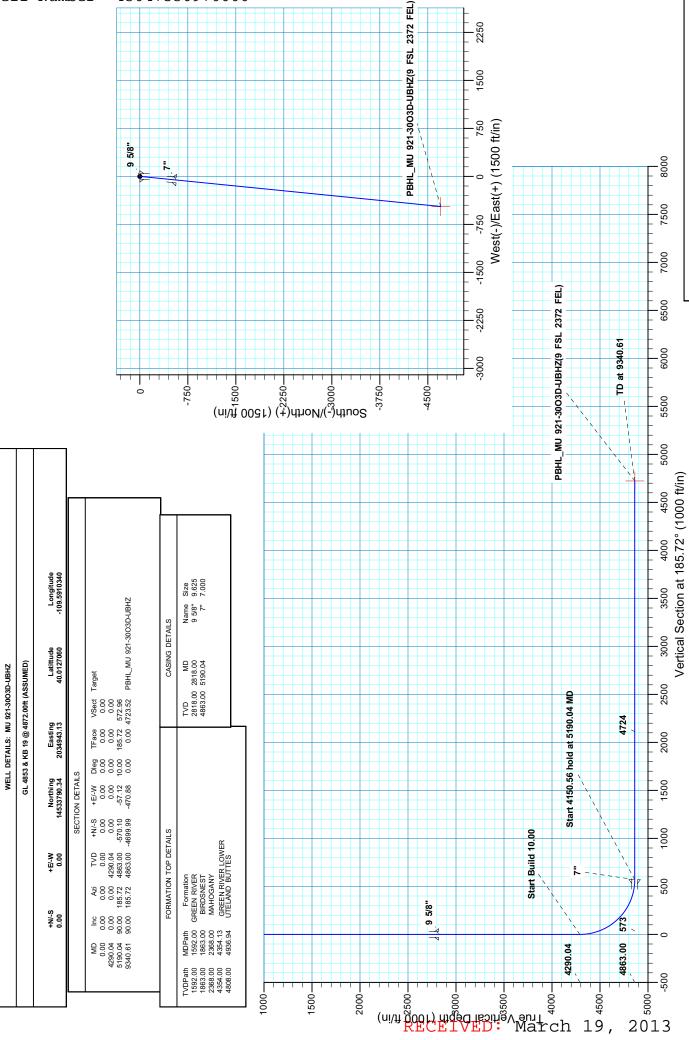
oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30B PAD Well: MU 921-3003D-UBHZ Project: 1 Site: I

ᆼ Wellbore:

Design: PLAN#1 PRELIMINARY



API Well Number:





oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30B PAD Well: MU 921-3004D-CMHZ Project: \Site: |

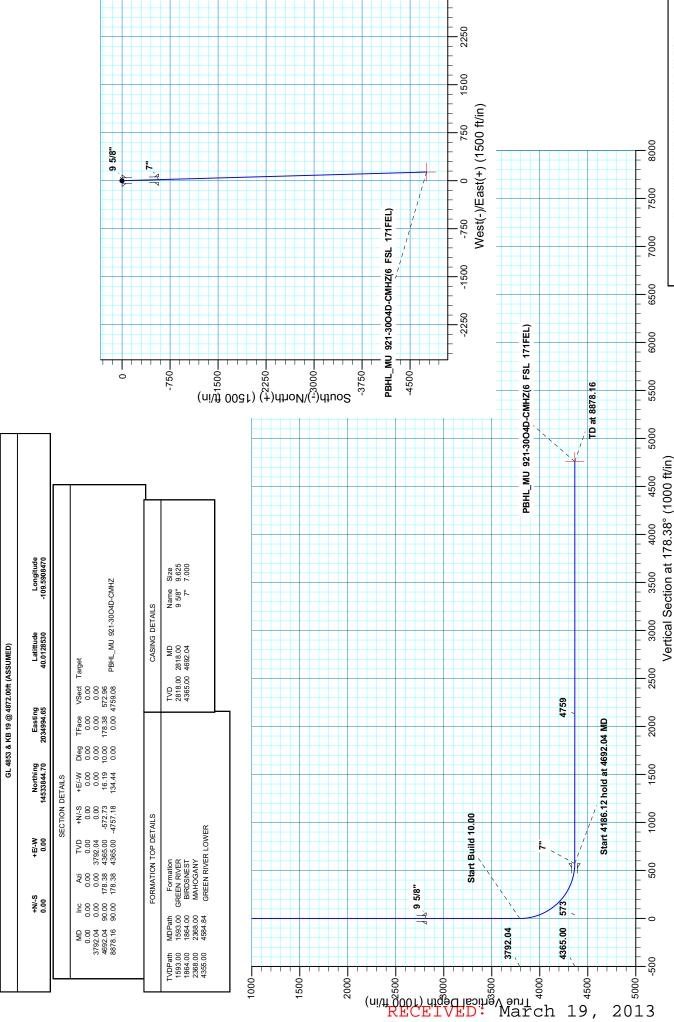
R Wellbore:

Design: PLAN #1 PRELIMINARY

WELL DETAILS: MU 921-3004D-CMHZ



API Well Number:



oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30B PAD Well: MU 921-3004D-UBHZ Project: \Site: |

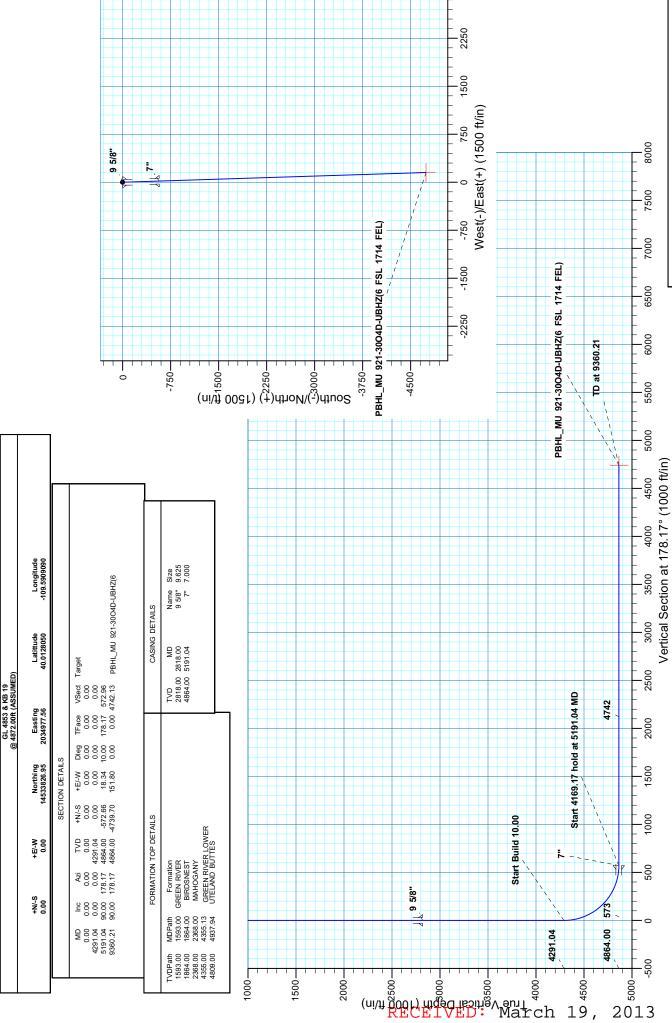
ᆼ Wellbore:

Design: PLAN#1 PRELIMINARY

WELL DETAILS: MU 921-3004D-UBHZ



API Well Number:



API Well Number: 43047536970000

#### **WORKSHEET** APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 3/13/2013 API NO. ASSIGNED: 43047536970000 WELL NAME: MU 921-19C1A-UBHZ OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6029 **CONTACT:** Cara Mahler PROPOSED LOCATION: NENW 30 090S 210E Permit Tech Review: SURFACE: 1093 FNL 2105 FWL **Engineering Review: BOTTOM:** 0002 FNL 2631 FWL Geology Review: **COUNTY: UINTAH LATITUDE**: 40.01110 LONGITUDE: -109.59763 **UTM SURF EASTINGS: 619688.00** NORTHINGS: 4429931.00 FIELD NAME: NATURAL BUTTES LEASE TYPE: 1 - Federal **LEASE NUMBER: UTU**0581 PROPOSED PRODUCING FORMATION(S): GREEN RIVER SURFACE OWNER: 1 - Federal **COALBED METHANE: NO RECEIVED AND/OR REVIEWED: LOCATION AND SITING:** ✓ PLAT R649-2-3. Unit: MAVERICK Bond: FEDERAL - WYB000291 **Potash** R649-3-2. General Oil Shale 190-5

Oil Shale 190-3

Oil Shale 190-13

Water Permit: 43-8496

**RDCC Review:** 

Fee Surface Agreement

Intent to Commingle **Commingling Approved**  R649-3-3. Exception

**Drilling Unit** 

Board Cause No: Cause 197-13

Effective Date: 8/21/2012

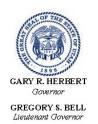
Siting: Suspends General Siting

R649-3-11. Directional Drill

Comments: Presite Completed

4 - Federal Approval - dmason 17 - Oil Shale 190-5(b) - dmason Stipulations:

27 - Other - bhill



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

#### Permit To Drill

\*\*\*\*\*\*

Well Name: MU 921-19C1A-UBHZ

**API Well Number:** 43047536970000

Lease Number: UTU0581 Surface Owner: FEDERAL Approval Date: 3/20/2013

#### Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

#### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 197-13. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

#### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available) OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

#### Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
  - Requests to Change Plans (Form 9) due prior to implementation
  - Written Notice of Emergency Changes (Form 9) due within 5 days
- $\bullet$  Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
  - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

IAN 1 8 2013 5. Lease Serial No.

	July . 4 mo	0100301
APPLICATION FOR PERMIT	6. If Indian, Allottee or Tribe Name	
1a. Type of Work: ☑ DRILL ☐ REENTER	DLIVI-	7. If Unit or CA Agreement, Name and No. UTU88574X
1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Of	her ☑ Single Zone ☐ Multiple Zone	Lease Name and Well No.     MU 921-19C1A-UBHZ
2. Name of Operator Contact	CARA MAHLER ahler@anadarko.com	9. API Well No. 43.047.53697
3a. Address PO BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6029 Fx: 720-929-7029	10. Field and Pool, or Exploratory NATURAL BUTTES
4. Location of Well (Report location clearly and in accorded	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area
At surface NENW 1093FNL 2105FW	L 40.011218 N Lat, 109.597680 W Lon	Sec 30 T9S R21E Mer SLB
At proposed prod. zone NENW 2FNL 2631FWL 40	.028815 N Lat, 109.596159 W Lon	
14. Distance in miles and direction from nearest town or post 46.4 MILES FROM VERNAL UTAH	office*	12. County or Parish 13. State UINTAH UT
<ol> <li>Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li> <li>472'</li> </ol>	16. No. of Acres in Lease 2399.60	17. Spacing Unit dedicated to this well
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file
925'	11032 MD 4855 TVD	WYB000291 RECEIVED
21. Elevations (Show whether DF, KB, RT, GL, etc. 4858 GL	22. Approximate date work will start 07/07/2013	23. Estimated duration SEP 0 5 2013 60-90 DAYS
	24. Attachments	DIV. OF OIL, GAS & MINING
The following, completed in accordance with the requirements o	f Onshore Oil and Gas Order No. 1, shall be attached to t	his form:
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off</li> </ol>	Item 20 above). em Lands, the 5. Operator certification	ormation and/or plans as may be required by the
25. Signature (Electronic Submission)	Name (Printed/Typed) CARA MAHLER Ph: 720-929-6029	Date 01/15/2013
Title REGULATORY ANALYST		
Approved by (Signature)	Name (Printed/Typed)  Jerry Kenczk	AUG 2 0 201:
Title Assistent Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFIC	
Application approval does not warrant or certify the applicant holoperations thereon. Conditions of approval, if any, are attached.	ds legal or equitable title to those rights in the subject lea	se which would entitle the applicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m States any false, fictitious or fraudulent statements or representati	ake it a crime for any person knowingly and willfully to ons as to any matter within its jurisdiction.	make to any department or agency of the United

Additional Operator Remarks (see next page)

Electronic Submission #183455 verified by the BLM Well Information System For KERR MCGEE OIL & GAS LP, sent to the Vernal Committed to AFMSS for processing by JOHNETTA MAGEE on 01/25/2013 ()

**NOTICE OF APPROVAL** 

CONDITIONS OF APPROVAL ATTACHED

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*



#### UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE** 170 South 500 East

**VERNAL, UT 84078** 

(435) 781-4400



#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

API No:

Kerr McGee Oil & Gas Onshore

MU 921-19C1A-UBHZ

43-047-53697

Location: Lease No:

Agreement:

NENW, Sec. 30, T9S, R21E

UTU-0581

**MAVERICK UNIT** 

**OFFICE NUMBER:** 

(435) 781-4400

**OFFICE FAX NUMBER: (435) 781-3420** 

#### A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to:  blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)		Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

#### SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop
  work and contact the Authorized Officer (AO). A determination will be made by the AO as to what
  mitigation may be necessary for the discovered paleontologic material before construction can
  continue.

#### Site Specific COA's

#### MU 921-19C Pad

- Mitigation measures can be found in Appendix B, Table B-2, of the GNB ROD (BLM 2012b) under the following sections of the table:
  - o Air Quality
  - o Soils
  - Vegetation: Sclerocactus wetlandicus
  - o Wildlife: Colorado River Fish
- Where populations or individuals of Sclerocactus wetlandicus are located within 300 feet of the proposed edge of project ROWs, the following actions will be taken to minimize impacts:
  - Silt fencing will be used to protect cacti that are within 300 feet and downslope or downwind
    of surface disturbance. Fencing is intended to prevent sedimentation or dust deposition and
    will be evaluated for effectiveness by a qualified botanist.
  - A qualified botanist will be on site to monitor surface-disturbing activities when cacti are within 300 feet of any surface disturbance.
  - Dust abatement (consisting of water only) will occur during construction where plants are closer than 300 feet from surface-disturbing activities.
  - Cacti within 300 feet of proposed surface disturbance will be flagged immediately prior to surface-disturbing activities and flags will be removed immediately after surface-disturbing activities are completed. Leaving cacti flagged for as short a time as possible will minimize drawing attention to the cacti location and reduce potential for theft.
  - Pipelines will be sited to maximize distance from adjacent cacti locations.
  - Project personnel associated with construction activities will be instructed to drive at a speed limit of 15 miles per hour on unpaved roads and remain in existing roadway ROWs at all times.
- For permanent surface pipelines, KMG will adhere to existing cacti survey/buffer guidelines of 300 feet, or amended guidelines if developed by the BLM and USFWS. In areas where avoidance by

Page 3 of 8 Well: MU 921-19C1A-UBHZ 8/9/2013

300 feet is not feasible and populations or individuals of *Sclerocactus wetlandicus* are within 50 feet of proposed project components, the following actions will be taken to minimize impacts:

- Prior to construction, flag individual cactus. Once pipe installation is complete, remove the flagging.
- Prior to construction, install protective fencing around the cacti if they are down gradient of the surface pipe. Once pipe installation is complete, remove the protective fencing.
- A qualified botanist will be present during construction to monitor surface line installation.
- The following considerations are required for those wells where KMG deems completion fluid recycling is appropriate based on new well density and topography:
  - Temporary lines associated with recycling of completion water will be sited in existing ROWs. The pressure in the lines is less than 50 pounds per square inch and the lines are constructed of rigid aluminum; therefore, virtually no movement will occur during operation.
  - o If surface water completion lines are placed within the footprint of a road disturbance where vegetation does not grow, *Sclerocactus wetlandicus* surveys will not be necessary.
  - o A qualified botanist will survey a 50-foot-wide corridor along roads where temporary lines are planned to ensure *Sclerocactus wetlandicus* is not present.
  - o If cacti are present within the 50-foot-wide survey corridor and avoidance is necessary (to ensure the line is more than 50 feet away from identified cactus), the new alignment will, if possible, be such that the cacti are topographically higher than the re-aligned line so a potential spill from the line will not impact the identified cacti.
  - If it is not possible to re-align the surface lines to avoid individuals or populations of the Sclerocactus wetlandicus that are within 50 feet of surface disturbance, the following actions will be taken to minimize impacts:
  - o Prior to construction, KMG will flag individual cacti. Once pipe installation is complete, remove the flagging.
  - Prior to construction, KMG will install protective fencing around the cacti if they are down gradient of the surface pipe. Once pipe installation is complete, remove the protective fencing.
  - A qualified botanist will be present during construction to monitor surface line installation.
- Avoidance of cactus by 300 feet will take priority in the expansion of pads within the cactus core
  conservation areas. When the 300-foot buffer cannot be avoided in pad expansion, KMG will notify
  the USFWS and work with the BLM to determine pad expansion that places a priority on avoiding
  cactus impacts.
- KMG will follow existing ROWs and/or roads in constructing new buried pipelines within the cactus
  core conservation areas. For instance, where a new buried pipeline is unable to follow an existing
  ROW and/or road and exceeds 600 feet in length, KMG will work with the USFWS and the BLM to
  determine a route that places a priority on avoiding cactus impacts.
- Maintenance activities on pipelines within cactus core conservation areas will avoid impacts to cactus, to the extent possible.
- All vehicles and equipment shall be cleaned either through power-washing, or other approved
  method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent
  weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established

Page 4 of 8 Well: MU 921-19C1A-UBHZ 8/9/2013

- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an
  integrated pest management program is applicable, coordination has been undertaken with the
  state and local management program (if existing). A copy of the pest management plan will be
  submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- Bird exclusion netting will be installed over reserve pits containing water that are left open for more than 30 days to reduce possibility of exposure to hazardous chemicals (BLM 2012b).
- KMG will install bird-excluding devises that prevent the perching and entry of migratory birds on or into its new fired vessel exhaust stacks (BLM 2012b).
- Tree removal within pinyon-juniper habitat will occur outside of the nesting season for migratory birds (approximately 4/1 to 7/31 (BLM 2012b).
- Paint facilities "Shadow Gray."
- Save and segregate the top six (6) inches of topsoil during well pad construction.
- Conduct a raptor survey prior to construction operations if such activities would take place during raptor nesting season (January 1 through September 30). If active raptor nests are identified during the survey, operations should be conducted according to the seasonal restrictions detailed in the Uinta Basin-specific RMP guidelines BLM 2008a.
- If construction and/or drilling operations have not been initiated prior to September 26, 2013, conduct a biological survey to determine the presence of Uinta Basin hookless cactus in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures and the BLM RMP ROD. KMG will implement commitments contained in the GNB BO.
- Monitor construction activities with a permitted archaeologist.
- Utilize applicable erosion BMPs to protect fill slopes.
- Double-line the reserve/completion pit.
- If any blasting is needed during construction activities, the Operator must notify any active Gilsonite
  operation located within two miles of the location 48 hours prior to the blasting.
- Damage to livestock and livestock facilities would be reported as quickly as possible to the BLM and affected livestock operators. Operators would develop and employ prevention measures to avoid damaging fences, gates, and cattleguards, including upgrading cattleguard gate widths and load-bearing requirements and fencing all open pits and cellars.
- If partial or complete removal of a fence cannot be avoided, the fence would be braced and tied off
  per the BLM guidance. Where the fence is crossed by a road, the fence would be braced and a
  cattleguard and gate installed per BLM guidance.

Page 5 of 8 Well: MU 921-19C1A-UBHZ 8/9/2013

#### DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DOWNHOLE COAs:

- Cement for the Intermediate casing shall be brought 200 feet above the surface casing shoe.
- A CBL shall be run from TD to TOC in the intermediate casing.
- Cement for the surface casing shall be circulated to the surface.
- Variances shall be granted as requested in Section 9 of the drilling plan.
- A variance is granted for the FIT test requirement.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily
  drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order
  No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a
  test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's
  log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- · Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
  encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
  Field Office.

Page 6 of 8 Well: MU 921-19C1A-UBHZ 8/9/2013

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
   Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 7 of 8 Well: MU 921-19C1A-UBHZ 8/9/2013

#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written communication
  and must be received in this office by not later than the fifth business day following the date on
  which the well is placed on production. The notification shall provide, as a minimum, the following
  informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - o Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - o Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid.)

Page 8 of 8 Well: MU 921-19C1A-UBHZ 8/9/2013

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to
  the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first.
  All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All
  product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in
  accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
  lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
  suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
  obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior approval
  of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
  approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
  of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 47672 API Well Number: 43047536970000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURC DIVISION OF OIL, GAS, AND MIN	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0581	
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: MAVERICK		
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: MU 921-19C1A-UBHZ
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047536970000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 80217	<b>PHONE NUMBER:</b> 3779 720 929-0	9. FIELD and POOL or WILDCAT: 1NATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1093 FNL 2105 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 30 Township: 09.0S Range: 21.0E Meric	lian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
✓ NOTICE OF INTENT	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start: 3/20/2014	CHANGE TO PREVIOUS PLANS  CHANGE WELL STATUS	CHANGE TUBING  COMMINGLE PRODUCING FORMATIONS	☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
Kerr-McGee Oil & G an extension to this	COMPLETED OPERATIONS. Clearly show a cas Onshore, L.P. (Kerr-McGe APD for the maximum time a with any questions and/or co	ee) respectfully requests allowed. Please contact	Approved by the
NAME (PLEASE PRINT) Teena Paulo	<b>PHONE NUMB</b> 720 929-6236	ER TITLE Staff Regulatory Specialist	
SIGNATURE N/A		<b>DATE</b> 2/7/2014	

Sundry Number: 47672 API Well Number: 43047536970000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43047536970000

API: 43047536970000 Well Name: MU 921-19C1A-UBHZ

Location: 1093 FNL 2105 FWL QTR NENW SEC 30 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

**Date Original Permit Issued:** 3/20/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No</li> </ul>
<ul> <li>Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?</li> <li>Yes</li> <li>No</li> </ul>
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ( Yes ( No
• Has the approved source of water for drilling changed?   Yes  No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No
nature: Teena Paulo Date: 2/7/2014

Sig

Title: Staff Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Sundry Number: 60671 API Well Number: 43047536970000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0581	
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: MAVERICK		
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: MU 921-19C1A-UBHZ
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047536970000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18t	h Street, Suite 600, Denver, CO, 80217	<b>PHONE NUMBER:</b> 73779 720 929-	9. FIELD and POOL or WILDCAT: 1NATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1093 FNL 2105 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 30 Township: 09.0S Range: 21.0E Merio	dian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
,	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
2/6/2015	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT  Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	all pertinent details including dates.	depths. volumes. etc.
Kerr-McGee Oil & (	Gas Onshore L.P. respectfull	y requests an extension	Approved by the
	the maximum time allowed.		<b>ՄեebrDåvi</b> sն9դ <b>2</b> 1015 Oil, Gas and Mining
unaersignea wi	th any questions and/or com	iments. Thank you.	o., car a.ag
			Date:
			By:
NAME (PLEASE PRINT)	PHONE NUMB		
Joel Malefyt  SIGNATURE	720 929-6828	Regualtory Analyst  DATE	
N/A		2/6/2015	

Sundry Number: 60671 API Well Number: 43047536970000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43047536970000

API: 43047536970000 Well Name: MU 921-19C1A-UBHZ

Location: 1093 FNL 2105 FWL QTR NENW SEC 30 TWNP 090S RNG 210E MER S

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**Date Original Permit Issued:** 3/20/2013

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<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No</li> </ul>
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes No
• Has the approved source of water for drilling changed?   Yes  No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No
nature: Joel Malefyt Date: 2/6/2015

Sig

Title: Regualtory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Form 3160-5 (August 2007)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

MAY 1 9 2015

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

UTU0581

	 7xp1100.	•
Lease	No.	

SUNDRY NOTICES AND REPORTS ON WELL Do not use this form for proposals to drill or to re-enter	ßL	N	
o not use this form for proposals to drill or to re-enter abandoned well.  Use form 3160-3 (APD) for such propos	arr		
abandoned well. Use form 3160-3 (APD) for such propos	iais.	٠	

6. If Indian, Allottee or Tribe Name

SODMIT IN TINE	PLICATE - Other instruc	tions on rev	erse side.		7. If Unit or CA/Agre UTU88574X	ement, Name and/or No.
1. Type of Well					8. Well Name and No.	
Oil Well Gas Well Oth		JENNUEED T	1101440		MU 921-19C1A-L	JDNZ
2. Name of Operator KERR-MCGEE OIL & GAS OF	NSHORELMail: JENNIFER	JENNIFER T THOMAS@AI	HOMAS NADARKO.COM		9. API Well No. 43-047-53697	
3a. Address P.O. BOX 173779 1099 18TH DENVER, CO 80217	STREET STE 600	3b. Phone No Ph: 720-92	(include area code 29-6808	)	10. Field and Pool, or NATURAL BUT	Exploratory TES
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description,	)	· · · · · · · · · · · · · · · · · · ·		11. County or Parish,	and State
Sec 30 T9S R21E Mer SLB N	ENW 1093FNL 2105FWL	<b>-</b>			UINTAH COUN	ITY, UT
12. CHECK APPI	ROPRIATE BOX(ES) TO	) INDICATE	NATURE OF	NOTICE, RI	EPORT, OR OTHE	R DATA
TYPE OF SUBMISSION			ТҮРЕ О	F ACTION		
☑ Notice of Intent	☐ Acidize	Deep	pen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Frac	ture Treat	☐ Reclama	ation	■ Well Integrity
☐ Subsequent Report	Casing Repair	□ New	Construction	☐ Recomp	lete	Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug	and Abandon	☐ Tempor	arily Abandon	Change to Original A PD
	Convert to Injection	Plug	Back	☐ Water D	Pisposal	
testing has been completed. Final Abdetermined that the site is ready for final Kerr-McGee Oil & Gas Onshot extension to this APD for the nundersigned with any question	inal inspection.) re, L.P. (Kerr-McGee) res naximum time allowed. P	pectfully required	iests an	mig reciamation	VERNAL F	
APD-8/20/13 NKPA-2013-165E		•	RECEIVED	) .	ENG. KA	
APD-8/20/13			RECEIVED			9 6/4/15
APD-8/20/13	<b>A</b>		-	5	GEOL	9 6/4/15
APD- 8/20/13 NEPA- 2013-166E	ROVAL ATTACHED	DIV. () 802210 verifie E OIL & GAS ()	JUN 15 201	MINING  II Information t to the Verna	GEOL E.S PET RECL	9 6/4/15
APD - 8/20/13  NEPA - 2013 - 166 F  CONDITIONS OF APPI  14. I hereby certify that the foregoing is	ROVAL ATTACHED  true and correct. Electronic Submission #3 For KERR-MCGEE	DIV. () 802210 verifie E OIL & GAS ()	JUN 1 5 201 DF OIL, GAS & N D by the BLM We DISHORE L, sen BY JOHNETTA MA	MINING  II Information t to the Verna	GEOL E.S PET RECL System	9 6/4/15
APD - 8/20/13  NEPA - 2013 - 166 E  CONDITIONS OF APPI  14. I hereby certify that the foregoing is	ROVAL ATTACHED  true and correct. Electronic Submission #3 For KERR-MCGEE Committed to AFMSS for	DIV. () 802210 verifie E OIL & GAS ()	JUN 1 5 201 DF OIL, GAS & N D by the BLM We DISHORE L, sen BY JOHNETTA MA	MINING  II Information t to the Verna GEE on 05/2	GEOL E.S PET RECL System	9 6/4/15
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APD - 8/20/13  NEPA - 2013 - 166 F  CONDITIONS OF APPI  14. I hereby certify that the foregoing is  Name (Printed/Typed) JENNIFER	True and correct. Electronic Submission #3 For KERR-MCGEE Committed to AFMSS for	DIV. C 302210 verifie E OIL & GAS 0 processing b	JUN 1 5 2011 DF OIL, GAS & N DI by the BLM We DINSHORE L, sen BY JOHNETTA MA Title REGUL Date 05/19/2	MINING  II Information t to the Verna GEE on 05/2: ATORY SPE	GEOL E.S PET RECL System I/2015 () ECIALIST	9 6/4/15
APD - 8/20/13  NEPA - 2013 - 166 F  CONDITIONS OF APPI  14. I hereby certify that the foregoing is  Name (Printed/Typed) JENNIFER	True and correct. Electronic Submission #S For KERR-MCGEE Committed to AFMSS for R THOMAS	DIV. C 302210 verifie E OIL & GAS 0 processing b	JUN 1 5 2011 DF OIL, GAS & N DI by the BLM We on SHORE L, sen by JOHNETTA MA Title REGUL Date 05/19/2 L OR STATE	MINING  II Information to the Verna GEE on 05/2: ATORY SPE  015  OFFICE US	GEOL E.S PET RECL System II 1/2015 () ECIALIST	9 6/4/15



# **CONDITIONS OF APPROVAL**

## Kerr McGee Oil and Gas Onshore LP.

### Notice of Intent APD Extension

Lease:

UTU-0581

Well:

MU 921-19C1A-UBHZ

Location:

NENW Sec 30-T9S-R21E

An extension for the referenced APD is granted with the following conditions:

- 1. The extension and APD shall expire on 08/20/2017.
- 2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

Sundry Number: 70080 API Well Number: 43047536970000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0581	
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: MAVERICK		
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: MU 921-19C1A-UBHZ
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047536970000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 8021	<b>PHONE NUMBER:</b> 7 3779 720 929-	9. FIELD and POOL or WILDCAT: 65NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1093 FNL 2105 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 30 Township: 09.0S Range: 21.0E Meri	dian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
✓ NOTICE OF INTENT	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:  2/26/2016	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
2/20/2010	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT  Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
Kerr-McGee Oil & G an extension to this	completed operations. Clearly show Gas Onshore, L.P. (Kerr-McG APD for the maximum time with any questions and/or c	ee) respectfully requests allowed. Please contact	Approved by the
NAME (PLEASE PRINT) Jennifer Thomas	<b>PHONE NUME</b> 720 929-6808	BER TITLE Regulatory Specialist	
SIGNATURE N/A		<b>DATE</b> 2/26/2016	

Sundry Number: 70080 API Well Number: 43047536970000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43047536970000

**API:** 43047536970000 **Well Name:** MU 921-19C1A-UBHZ

Location: 1093 FNL 2105 FWL QTR NENW SEC 30 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 3/20/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

<b>9</b>
• If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?</li> <li>Yes </li> <li>No</li> </ul>
<ul> <li>Has there been any unit or other agreements put in place that could affect the permitting or operation of thi proposed well?</li> <li>Yes</li> <li>No</li> </ul>
<ul> <li>Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?</li> <li>Yes</li> <li>No</li> </ul>
• Has the approved source of water for drilling changed? 🔵 Yes 📵 No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well? 📵 Yes 🔵 No
Signature: Jennifer Thomas Date: 2/26/2016
Title: Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Feb. 26, 2016